

## News



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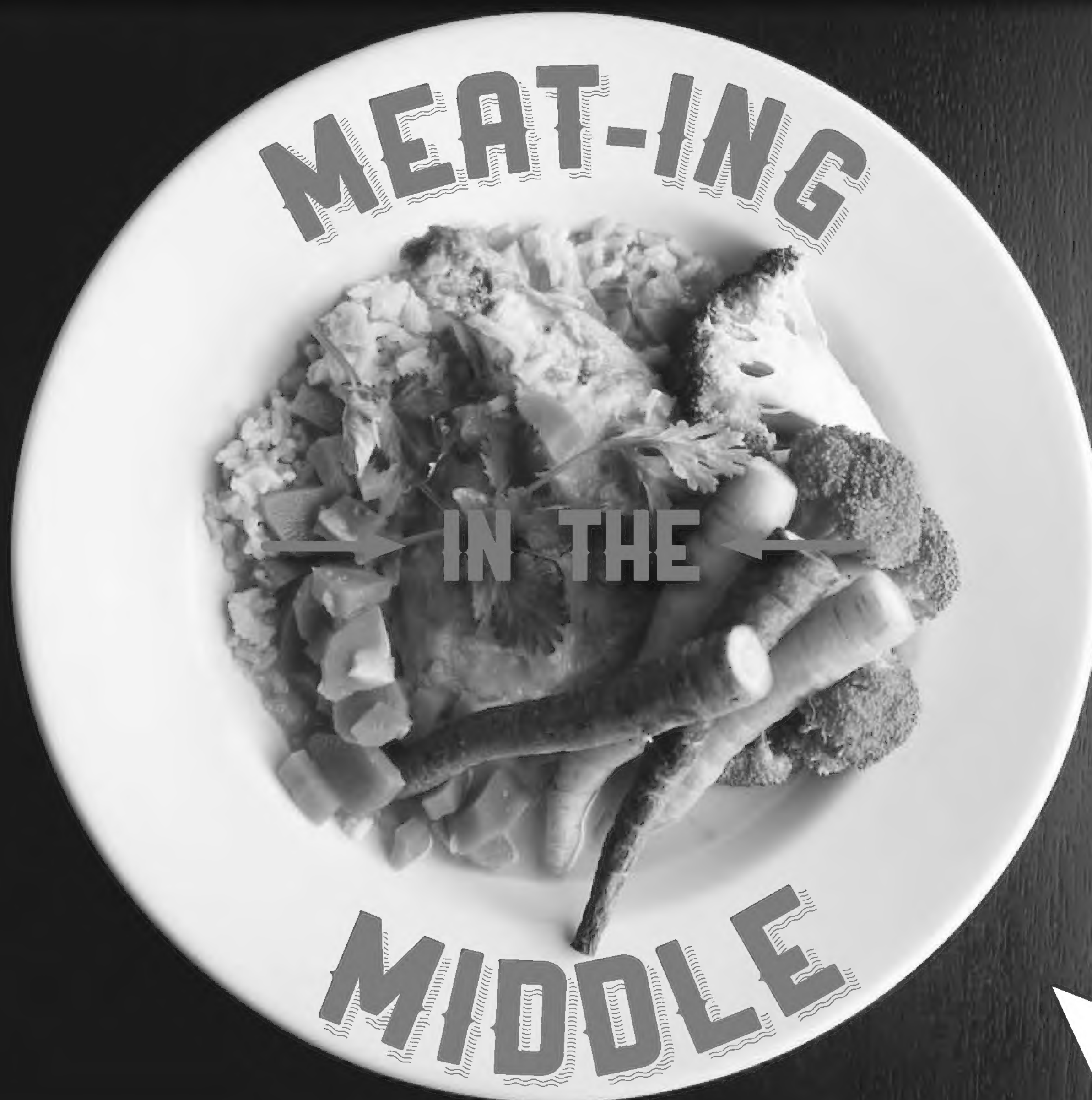
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**Brasil**

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June 9th, 2014 ■ Issue No. 2 ■ Volume 105

# THE gateway

THE OFFICIAL STUDENT NEWSPAPER AT THE UNIVERSITY OF ALBERTA



PG 12-13

## Arts



Largest touring show on Earth sets up tent in Edmonton • 16

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JULY

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THE gateway

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Suite 3-04  
Students' Union Building  
University of Alberta  
Edmonton, Alberta  
T6G 2J7

Telephone 780.492.5168  
Fax 780.492.6665  
Ad Inquiries 780.492.6700  
Email gateway@gateway.ualberta.ca

editorial staff

EDITOR-IN-CHIEF Andrea Ross  
eic@gateway.ualberta.ca | 492.5168

MANAGING EDITOR Kate Black  
managing@gateway.ualberta.ca | 492.6654

ONLINE EDITOR Kevin Schenk  
online@gateway.ualberta.ca | 492.6652

NEWS EDITOR Richard Catangay-Liew  
news@gateway.ualberta.ca | 492.7308

OPINION EDITOR Shandi Shiach  
opinion@gateway.ualberta.ca | 492.6661

ARTS & CULTURE EDITOR Brad Kennedy  
arts@gateway.ualberta.ca | 492.7052

SPORTS EDITOR Cameron Lewis  
sports@gateway.ualberta.ca | 492.6652

MULTIMEDIA EDITOR Shannon Kovalsky  
multimedia@gateway.ualberta.ca

PHOTO EDITOR Christina Varvis  
photo@gateway.ualberta.ca | 492.6648

DESIGN & PRODUCTION EDITOR Jessica Hong  
production@gateway.ualberta.ca | 492.6663

business staff

BUSINESS MANAGER Ryan Bromsgrove  
biz@gateway.ualberta.ca | 492.6700

GRAPHIC DESIGNER Vikki Wiercinski  
design@gateway.ualberta.ca | 492.6647

WEBMASTER Alex Shevchenko  
webmaster@gateway.ualberta.ca

CIRCULATION PALS  
Anthony Goertz & Robert Latte  
circulation@gateway.ualberta.ca



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colophon

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contributors

Alexandros Papavasiliou, Adrian Pearce, Kieran Chrysler, Kobe Amoli, Taylor Evans, Peggy Jankovic, Adam Pinkoski, Stephano Jun, Nikhil Shah, Anthony Goertz, Michael Johnson, Jessica Pigeau, Holly Detillieux, David Kim, Lola Adeyemo, Hannah Madsen

haiku

Shannon is on fire  
Yas gurl, her hair is so red  
Crushin' on a ginge



PHOTO OF THE WEEK Umbrellas came out as Edmonton Pride Parade spectators found themselves in a sudden downpour Saturday.

KEVIN SCHENK

streeters

COMPILED AND PHOTOGRAPHED BY Cameron Lewis + Kate Black

As you may have heard, it's Sunday!  
WE ASKED...

What the hell  
are you doing on  
campus ?



Plant EAS XXVII

"My campus rec slo-pitch team had a game earlier, so I'm just hanging out, getting some CO2 and sunlight to make O2."

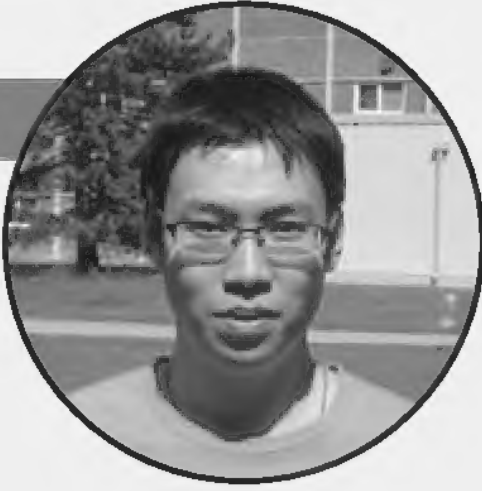


Oleksii Shevchenko COMP SCI III

"I work here."

Feng Pan GRADUATE STUDIES II

"I play soccer. It's fun."



Nolan Beck COMP SCI II

"I'm a guy. I do stuff."





# News

**News Editor**  
Richard Catangay-Liew

**Email**  
news@gateway.ualberta.ca

**Phone**  
780.492.7308

**Twitter**  
@RichardCLiew

**Volunteer**  
Give me a shout. (Or an email.)

## New safety video could prevent tragedy on campus

**Richard Catangay-Liew**  
NEWS EDITOR ■ @RICHARDCLIEW

A new educational video depicting an active shooter on campus aims to make “get out, hide and fight” as universally known as “stop, drop and roll.”

“Shooter on Campus: Know You Can Survive,” which debuted to the public May 26, demonstrates how to react appropriately to an active shooter scenario on campus. An active shooter is defined as an individual actively engaged in killing or attempting to kill people in a confined and populated area.

A voice-over accompanied by on-screen instructions educates viewers on key courses of action when facing an active shooter situation and how to mitigate harm.

The short film highlights and emphasizes escaping when possible, hiding when necessary and using aggressive force as methods to deter an active shooter.

Actors, which included U of A drama students, demonstrated these three essential elements to survival, as they encountered a dramatization of a heavily armed assailant terrorizing campus buildings like the Edmonton Clinic Health Academy (ECHA) at the U of A.

Philip Stack, associate vice-president of Risk Management Services at the U of A, said it’s crucial to educate students, faculty and staff if they are caught in an active shooter situation, even if it may seem unthinkable.

“Although these incidents are extremely rare, they can happen and obviously the consequences of these incidents are extremely severe,” he said. “We felt that it was important that we provide this type of information to our communities.”

“It reminds us that there are things we can do to keep ourselves safe, no matter where we are.”



**DETERRING DISASTER** Do you know what to do in the event of an active shooter? This new video shows you.

SUPPLIED

The initiative to carry out the video was put forth by Campus Alberta Risk and Assurance Committee (CARA), a group of risk managers from Alberta post-secondary institutions.

Seven institutions expressed particular interest and contributed resources when CARA proposed the idea: Concordia University College, MacEwan University, Mount Royal University, NorQuest College, SAIT Polytechnic, the University of Alberta and the University of Lethbridge.

The finished project was then made equally available to all 26 post-secondary schools in the province.

Although part of the video was filmed in ECHA, Stack, who is also the chair of CARA, said the information would be similar regardless of what campus you’re on.

Staff Sergeant Terry Langley of Edmonton Police Services, who played a pivotal role in developing the video, agreed with Stack.

“You could use these techniques in other types of situations, not just an active shooter,” he said. “Any

threat on campus — an active killer of any kind, regardless of the weapon system they’re using — you can refer to these.”

When fire drills were being introduced 50 to 60 years ago, the public was tentative, Langley said. But now fire safety and knowing where emergency exits are generally common knowledge. CARA’s goal is to eventually make safety principles in an active shooter crisis a widespread and well-known practice.

“It’s not paranoia,” Langley said. “It’s another kind of emergency that

we have to keep in mind and be prepared to react to.”

Response and feedback to the video since its public release has been exceptional, Andrew Leitch, manager of communications and project planning of CARA said. Feedback has ranged from individual e-mails from viewers, discussions with officials, social media discourse or YouTube comments.

“It has been very positive,” he said.

A trending concern raised about the video is in regards to the legal use of violent force to subdue the active shooter. When necessary, and at your absolutely last resort, fighting aggressiv are essential to survival, Leitch said.

“Yes (it’s legal),” he said. “Because he’s going to kill you.”

CARA plans to bring the video out again with a general emergency awareness once a term, starting fall 2014. Efforts to roll out and push the video will be more extensive once classes start, since many new students are on campus.

Leitch expects that CARA will make another iteration of the film in the future, which will likely be shorter than the nine-minute video that currently exists, while still maintaining the video’s main message.

He added that people tend to have fear and anxiety regarding a shooter on campus because of the instances they see on the news, despite how rare the possibility may seem.

“There is an extremely fine line between trying to talk about an issue when the likelihood is so incredibly remote,” he said. “On the other hand, how could it possibly not when all it takes is one time?”

The video can viewed at the U of A’s Protective Services website: [www.protectiveservices.ualberta.ca/Information/Safety/ActiveShooter.aspx](http://www.protectiveservices.ualberta.ca/Information/Safety/ActiveShooter.aspx)

## University notifies all CCID users to change their passwords

**Cameron Lewis**  
SPORTS EDITOR ■ @COOOM

The University of Alberta has initiated a university-wide password change to combat the potential dangers of the online security virus known as Heartbleed.

The initiative aims to increase security and limit the potential vulnerability of CCID accounts. To the university’s knowledge, no CCID accounts have been compromised by the virus.

On April 7, the Heartbleed bug was publically announced as a potential security threat. The university’s critical systems were patched immediately after.

Since then, the Office of the Vice-Provost and Associate Vice President (Information Technology, VPIT) have continuously scanned U of A systems for traces of the bug, and have urged all CCID users to change their passwords.

“The Heartleed (bug) generally became known on April 6, so our IT team immediately made sure that our enterprise systems and our critical systems that were affected were patched and fixed,” Information

Technology Security Officer Gordie Mah said.

The university had to ensure that all systems at the university were scanned, patched and remedied for the virus before any further action was taken, which is why the password reset initiative took so long.

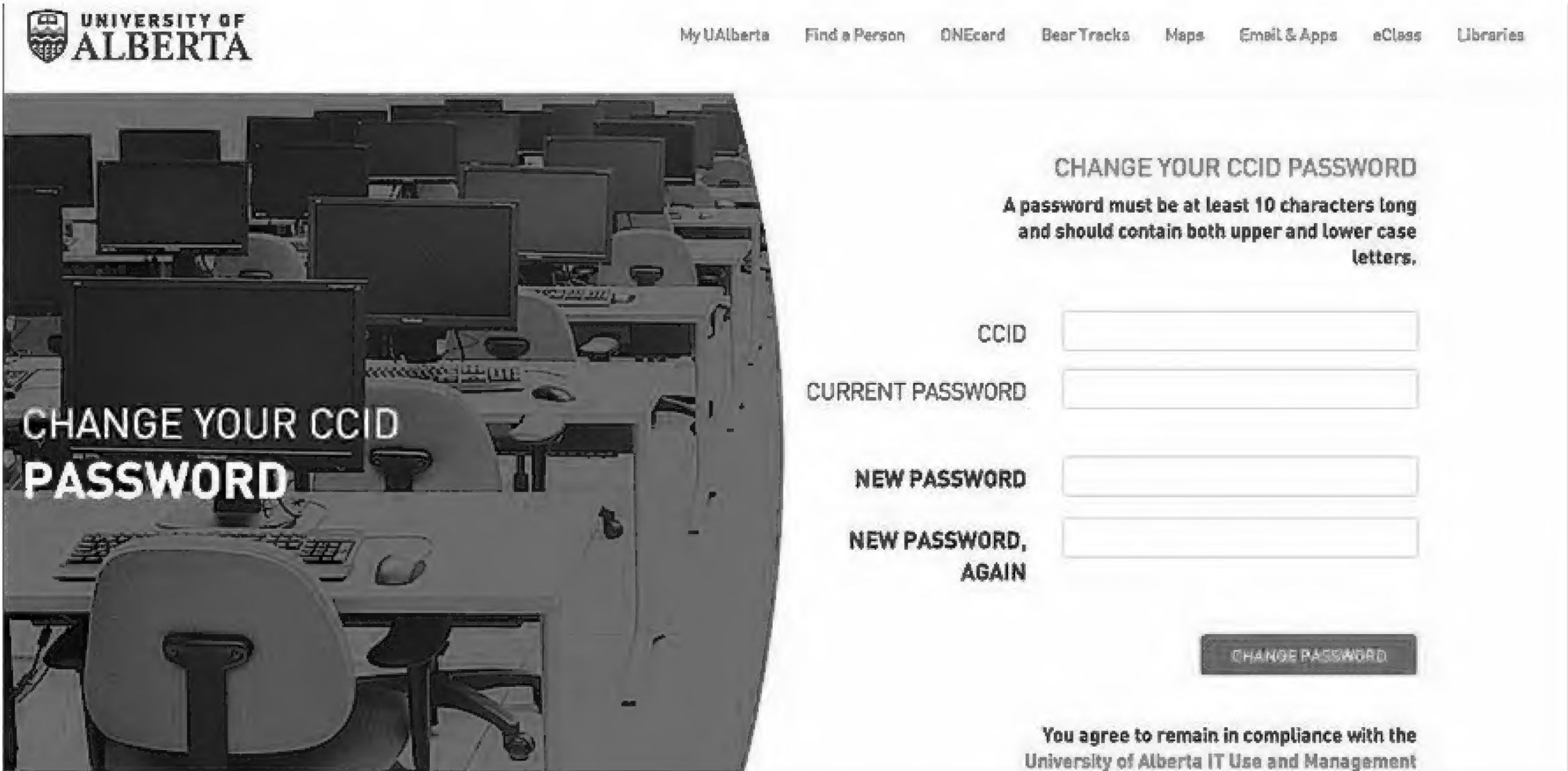
“Given the complexity of our university, and all of the other systems out there, we had to conduct ongoing scans and provide support until we reached that stage where we could determine that the remedy was adequately in place.”

Encryption keys on affected university systems then needed to be changed to complete the remediation process.

“We used the analogy of needing to change all of the locks for the doors in one house if there’s ever a risk regarding who has possession of keys to that house.”

CCID users were then prompted to reset their passwords via rolling e-mails.

While no U of A accounts were compromised, Mah said he urges students to be careful with passwords and additional sensitive information in order to protect their



**PASSWORD PREDICAMENT** All of campus is urged to change their CCID passwords.

SUPPLIED

security and mitigate risk from the Hearbleed virus.

It may seem like common sense, Mah said, but the university encourages students, faculty and staff to engage in proper password management practices.

Anything from sharing passwords with other users, using a common password across multiple accounts

or communicating sensitive information over email could put CCID holders at risk.

“For ease of password management, some folks will use that same password for their online banking and their CCID or whatever online site that they’re a part of,” Mah said. “Be aware of phishing attempts and don’t readily disclose or provide

credentials, financials or credit card information over email.

“The issue there is that if just one of those accounts is compromised, all of the other associated accounts can become compromised as well.”

More information about Heartbleed and the university-wide password change can be found at [www.vpit.ualberta.ca/myccid](http://www.vpit.ualberta.ca/myccid).



# Groups of four applying for U of A presidential position

**Andrea Ross and Richard Catangay-Liew**  
EDITOR-IN-CHIEF AND NEWS EDITOR

In what started as a joke, four East-coast professors are now seriously applying together for the single position of the University of Alberta's next president and vice-chancellor. Kathleen Cawsey, an associate professor of medieval literature at Dalhousie University, saw the job posting for the U of A's next president with a starting annual salary of \$400,000. Some back-and-forth bantering between colleagues turned into a very serious application, alongside Dalhousie University professors Renee Ward and Becca Babcock, with Saint Mary's University professor Lucie Kocum, submitting a joint application for the position which closes June 10.

■ **“We believe that by job-sharing this position, we would be able to do a better job than any one person could do.”**

KATHLEEN CAWSEY  
DALHOUSIE UNIVERSITY PROFESSOR

With their unconventional application, the professors are hoping to make a statement about the disconnect between university academics and administrators, and spur discussion about the wide salary differences between the two.

“I certainly don't think I'm going to get this job or anything,” Cawsey said. “But there's an underlying seriousness that is to do with the state of universities today and the real concern I have about them. I think



**PRESIDENTIAL PARTNERS** Groups of four are applying for the soon-to-be-vacant presidential position at the U of A.

KEVIN SCHENK

the best way to change things is through humour.”

Cawsey posted the joint cover letter on Facebook, inviting other friends to apply for the coveted position. In the letter, the professors said the salary is “ample enough” to meet the needs of all four applicants.

“We believe that by job-sharing

this position, we would be able to do a better job than any one person could do,” the letter reads. “We know that you, in your wisdom, will see the sensible nature of our application: how by accepting only what is reasonable and fair salary, four extremely qualified individuals can contribute far more to the university and to academia in general than

any one person could.”

Dalhousie University's outgoing president and vice-chancellor, Tom Traves, earned \$393,000 in 2012, lower than U of A president Indira Samarasekera, whose salary is ranked among the highest of university executives across the country.

In 2012, she earned almost \$1.2

million in salary and benefits.

But Cawsey said students help pay these salaries, they should be aware of how much their professors make, in comparison to university administrators.

■ **“Often students feel powerless when it comes to the upper admin, (but) I think their voices can be heard.”**

KATHLEEN CAWSEY  
DALHOUSIE UNIVERSITY PROFESSOR

“Often students feel powerless when it comes to the upper admin, (but) I think their voices can be heard,” she said. “This is your money, education and environment and place.”

Chair of the U of A's Board of Governors, Doug Goss, said the hiring decision will keep in mind the university's status as one of the best in the world.

“We're going to go out and find the best possible candidates in the world to lead the university,” he said. “It's a job we take very seriously.”

In a post on Facebook, Cawsey said that if she was offered the job, she would only take it if the U of A commits to hiring five new professors in the humanities — and would forgo the benefits that come with the position.

But whatever the outcome, Cawsey said the letter has been in good fun — a light way of approaching a bigger issue.

“It wasn't supposed to be angry or revolutionary — it's meant to make a point.”

Sports  
SPORTS  
Dog

You let me down. Week after week, you never wrote about sports. I hope someday you can change. After all, if you graduate from this school having never written about U of A sports, you'll regret it. Maybe not today, maybe not tomorrow, but soon and for the rest of your life.

online at THEGATEWAYONLINE.CA/SPORTS

gatewaysports



# Bike lending library gears up at new location in SAB

**Adrian Pearce**  
GATEWAY WRITER

If you ask students which libraries they frequent on campus, they will most likely point towards Cameron or Rutherford Library. Not many will tell you the Bike Lending Library and Workshop is the first one that comes to mind.

Freshly relocated to room 1-13 of the South Academic Building due to ongoing renovations at the Students' Union Building, the seemingly unknown library offers cyclists an easy way to wheel their bikes in and out of the U of A.

▪ **“You can travel to more places (in the city) by bike than by walking.”**

JASMINE FARAHBAKSH  
VOLUNTEER, BIKE LENDING LIBRARY AND WORKSHOP

Jasmine Farahbaksh, a master's student in community nutrition and a volunteer at the library, said the library embraces both novice and veteran cyclists.

“This is an accessible and welcoming place and very convenient for students,” she said. “You get to learn a lot about bike maintenance.”

Nathan Eifert, the bicycle librarian, echoed Farahbaksh's sentiments, and encouraged new riders to take part in the library's Bicycle Maintenance Workshops.

“We can show you how to fix a bike and if you already know how, we have the tools and the supplies so that you can do it yourself,” he said.



**BOMBASTIC BICYCLISTS** The bike library in SAB offers rentals and bicycle maintenance.

ADRIAN PEARCE

The Office of Sustainability sponsors the Bicycle Library and Workshop, and its mandate is to encourage sustainable transportation, provide the campus community with access to affordable transportation and promote physical activity, health and well-being.

Bike rentals are available to U of A students, faculty and staff from April through October.

This year, the library has 60 bicycles to rent out, including road bikes, hybrids and mountain bikes. Each rental comes equipped with a

sturdy u-lock, two lights and a bell.

The library encourages all riders to read the City of Edmonton Bicycle Laws before renting. And while helmet wearing is endorsed, Eifert said it's not mandatory.

“In my opinion, wearing a helmet is a personal choice,” he said. “But if you are new to cycling, I recommend wearing one.”

There is a waiting list for those wanting to rent a bike, but when cyclists get their chance, the process takes 10 minutes. It is then a matter of finding a suitable bike, filling out

paperwork and deciding between a one day, one week or one month rental period.

One-month rentals require a \$40 deposit and a \$20 seasonal rental fee. Short-term rentals still require the \$40 deposit, plus \$5 for a day rental or \$10 for a week rental.

These fees can be paid in cash or using the university's ONEcard.

Often, the university will have visiting dignitaries who would rather travel around the city by bike than other modes of transportation. The bike library will gladly

rent out bikes on a short-term basis to these guests, as Farahbaksh said bicycling can be an advantageous alternative for these visitors.

“You can travel to more places (in the city) by bike than by walking.”

The Bicycle Library and Workshop are open 10 hours a week on Tuesday 10 a.m. to 1 p.m., Wednesday 12 p.m. to 4 pm and Thursday 1 p.m. to 4 p.m.

You can drop in to their new location in SAB 1-13 or visit them at their website: [www.su.ualberta.ca/services/sustainsu/bikelibrary](http://www.su.ualberta.ca/services/sustainsu/bikelibrary).

# Computer program could help fuel RCMP arson investigations

**Richard Catangay-Liew**  
NEWS EDITOR • @RICHARDCLIEW

Arson is probably one of the most challenging and time-consuming cases analytical scientists face. But a new computer program developed by University of Alberta researchers and the RCMP has the ability to shorten and simplify the problem solving process.

James Harynuk, associate professor of chemistry in the Faculty of Science at the U of A, said the challenge his team faced was if they could build an algorithm that could automatically identify gasoline in fire debris data left behind from arson cases.

▪ **“Right now it takes three to seven days to get results.”**

JAMES HARYNUK  
ASSOCIATE PROFESSOR, UNIVERSITY OF ALBERTA

“In the normal process, (two) scientists in the lab will look at the data in the file and pick out certain traces and sift through it to find out if something's there,” Harynuk said. “That can take as long as an hour a person.”

The computer program he developed can turn around results much quicker. What would normally take an hour now take seconds, and this would enable the second forensic scientist to work on other areas of the arson case, increasing lab efficiency.

“Right now, it takes between three to seven working days to get results back to the investigator,” Harynuk said. “When this gets up and running, they're hoping to get



**ARSON ANALYTICS** James Harynuk demonstrates how to simulate a fire to produce debris data in his lab.

CHRISTINA VARVIS

that down to two or three working days.”

The difficulty in probing arson cases stems from its variability. When conducting analysis, there are very few molecules that will be consistent from sample to sample, as burned debris can range from carpet, furniture or vehicles.

Since the target of gasoline is a complex mixture itself, sorting

through charred remains from different sources makes it tough for investigators.

People are generally good at sifting through the fire debris, but naturally take a long time. Computers are fast, but not as smart or precise as people.

But Harynuk said the program with their algorithm offers a compromising balance that's both

accurate and swift in detecting gasoline.

Gasoline is present in roughly 75 per cent of fire debris samples, likely due to its accessibility and easiness to burn, which is why it is Harynuk's combustible of focus.

“You can quite easily buy 40 gallons of gas and that's not at all suspicious,” he said.

“Whereas when you're trying to

buy something else in that quantity, it looks a little funny.”

Harynuk said he would like to be able to build algorithmic models for other ignitable liquids down the road, such as fluids and materials you can find at Canadian Tire or other retail stores.

Mark Sandercock, manager of the trace evidence operations support for the RCMP's National Forensic Laboratory Services in Edmonton, co-authored the recent study in *Forensic Science International*.

The two met while Harynuk was looking for challenging data sets back in 2008.

Sandercock, who shared a similar interest in research, helped by providing his lab with samples and guiding them in the right direction.

“Mark loves the tool,” Harynuk said. “He's quite eager to get something working in the lab so we can use it.”

But first, the RCMP will need to secure proper funding to support the current project.

While the RCMP's forensic labs are “enthusiastic supporters” of the model, they don't have the money to fully utilize the program.

Until then, Harynuk and his research team will be working on re-doing a bit of their code to run parallel with the RCMP's new control software. Once the program is employed, Harynuk said he hopes the algorithm will help steer the already complicated arson investigations.

“(It should) help them know who they should be asking and what they should be asking,” he said.

“Give them information so they already know answers then they start interviewing people and evaluating evidence.”



# Electrochemical paper to detect lethal pathogens

**Collins Maina**  
GATEWAY WRITER • @COLLINSMAINAS

A research project gaining momentum at the University of Alberta has the potential to change the world's view on how harmful bacteria in food and water are detected.

Frédérique Deiss, a postdoctoral fellow specializing in electrochemistry, is currently in the early stages of developing a project which aims to create low-cost, portable electrochemical paper-based devices to detect deadly pathogens such as E. coli in milk.

Deiss was awarded a \$112,000 grant from Grand Challenges Canada – Rising Stars in Global Health, and is working towards having a functional prototype that can be tested by local farmers and the scientific community around Nairobi, Kenya in about a year's time.

▪ **“It is always easier to build on what you already know in order to move faster.”**

FRÉDÉRIQUE DEISS  
POSTDOCTORAL FELLOW, UNIVERSITY OF ALBERTA

“We are developing the very first prototype with non-pathogenic bacteria of E. coli because that is what we have and use in our lab,” she said. “The local farmers and our collaborator in Kenya — the International Livestock Research Institute — are very interested in the detection of bacteria in milk.”

This inexpensively produced, portable device aims to simplify a lengthy testing process where samples from dairy farms have to be collected and transported to labs



**PAPER PROTOTYPE** Paper-based devices could help detect E. coli in water or food.

RICHARD CATANGAY-LIEW

for testing, a process that could be challenging in areas with limited infrastructure and lab capacities, Deiss said.

The device would also continuously monitor bacteria development in areas that have an established infrastructure, as well as give an all-in-one bacteria testing and measurement tool to those in more rural areas.

Two Harry Ainlay High School students are assisting Deiss in making the devices, and the team plans to make a product that can be created globally using easily accessible materials.

“I do not want to create a system where we make them in North America and then ship them somewhere else to be used,” Deiss said, “This would make a lot of problems

with transport and how to store them.”

The disposal of bio-waste is another interesting element, Deiss said, as she noted the devices could be burned after a month's use or after bacterial contamination.

Deiss said the simplicity of the project is what made her one of 61 grant recipients out of around 750 applications to Grant Challenges

Canada, which is funded by the Government of Canada. She also noted the straightforwardness of the model made her think it was “too simple to work” when she first started developing it.

Her idea to make the electrochemical device, which can be constructed with regular packaging tape and specialized paper, resulted from the combination of knowledge gained from her PhD program in France, her first postdoctoral appointment in Harvard University and her current experience at the U of A.

▪ **“I would advise young researchers to be bold, push further and don't hesitate.”**

FRÉDÉRIQUE DEISS  
POSTDOCTORAL FELLOW, UNIVERSITY OF ALBERTA

“The idea was to put together what I knew about electrochemistry on paper, which I learned in Harvard, and combine it with the culturing of bacteria in paper that I learned here at the U of A,” she said.

“It is always easier to build on what you already know in order to move faster.”

In the midst of developing the prototype, Deiss is already setting ground for the next stage of her project as she searches for additional funding to carry the project forth past this initial phase.

Deiss said the interest in the project has given her an exponential boost in confidence as a young researcher, which is something she hopes encourages others.

“I would advise young researchers to be bold, push further and don't hesitate.”

# Prof secures highest recognition for an engineering educator

**Shandi Shiach**  
OPINION EDITOR • SHANDILLIAHOSEN

A University of Alberta visionary has won the Medal for Distinction in Engineering Education from Engineers Canada.

Acting Associate Dean, Suzanne Kresta, a professor of chemical engineering and editor of the *Handbook of Industrial Mixing: Science and Practice*, is an agitator — a play on her specialization as a “mixer,” coined by an industrial chemical plant manager. She's also a self-dubbed renegade educator, having tussled with administration as an undergraduate at the University of New Brunswick, earning herself a teaching gig there before her first degree.

“She takes a transformative approach to teaching her courses, focusing on the students and their needs,” Darrell Fisher, chairperson of the Engineers Canada Awards Committee, said by email.

The committee noted that many students listed Kresta's courses among the top five most important of their program.

“Dr. Kresta's goal is to transform her students from guided learners to self-directed teams of life-long learners and practicing professional engineers,” Fisher said. “She is actively involved in women in engineering groups and activities.”

The 2011 census found that women were less likely than men to choose programs in engineering, regardless of their high school math ability. Universities in Alberta and Canada have grown their engineering programs in the past decade to try and meet demand for qualified professionals in

engineering-related fields. Kresta is particularly passionate about improving classroom outcomes for her colleagues as well as learners, innovating the act of teaching itself.

“It's fun to help people win,” she said.

Kresta envisions a future where educators will be matched to courses and students in informed ways that create the most beneficial links between material and people. For example, some excel in one-on-one or small group mentorship situations, or curriculum lecturing, or engaging and inspiring discussion, and so on.

Kresta has adopted and distributed data collection methods that help teachers see gaps, learn what their strengths are and leverage learning styles of their students. She's encouraged professors and professional instructors to work backward, identifying learning goals, creating evaluation blueprints, teaching then testing if it's working, and solving problems.

“Engineering is just about the coolest thing you can possibly do with your life,” Kresta said. She has two daughters who are also in engineering.

Teaching came as a natural extension to her as an engineering academic. Kresta comes from a family of people who have found ways of sharing their expertise in life and their professional spheres, including an aunt who wrote a better form of braille when she found it lacking for learning-disabled blind students.

Engineering, in particular, helps people in every facet of society, said Kresta. Engineers save lives



**PRIZED PROFESSOR** Suzanne Kresta has earned the highest distinction in the country as an engineering educator.

SUPPLIED

by providing clean drinking water, design and test roller coasters and games, make clean energy possible through innovations in electricity and many other areas.

“And that's what a lot of our students are like,” she said. “(It's like) ‘A problem? I get to solve a problem? Yay!’”

Philip Mulder of the Association

of Professional Engineers and Geoscientists of Alberta (APEGA) said by email that his organization is “particularly pleased that Dr. Kresta has received further well-deserved recognition — this time at the national level by Engineers Canada.”

Kresta has been honoured in many ways throughout and before

her 22 years at the University of Alberta, including a national award for research at a relatively young age, and with a 2013 Excellence in Education Award from APEGA.

“Dr. Kresta is known to fellow members of APEGA,” said Mulder, “as a passionate and caring educator who inspires undergraduate engineering students to excel.”



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# Opinion

**Opinion Editor**  
Shandi Shiach

**Email**  
opinion@gateway.ualberta.ca

**Phone**  
780.492.6661

**Twitter**  
@Shandilliahosen

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EDITORIAL COMMENT

## Celebrate National Aboriginal Day this June 21, in your city

CANADIANS IN THE NORTHWEST TERRITORIES ENJOY A statutory holiday on June 21, but here in Alberta, we're just lucky this one falls on a Saturday. That's when Canada observes National Aboriginal Day, a hard-won day of recognition and solidarity (it took 14 years of campaigning — from 1982 to 1996, not to mention the long fight before that) for communities of First Nations, Inuit and Métis heritage to celebrate Aboriginal culture. National Aboriginal Day is a governor general sanctioned, Canada-wide opportunity to explore our individual and family identities, collaborate in the development of group identities and contemplate our Aboriginal and shared history.

Recent years have seen solidarity marches, community picnics, gallery exhibitions, public dancing, drumming and prayer — and not just on one day; even university courses are coming to benefit and pass bounty to students from previously untapped indigenous wisdom and ways of knowing. The Canadian Forces recently acknowledged substantial contributions to our military, in the 22nd annual Aboriginal Awareness Week, this May. These moments of triumph are a chance to unite around the great success Aboriginal Canadians have won in spite of adversity, and while it's inspiring to see how far we've come since Residential Schools and the unspeakable acts that preceded them, it's also important to carry that progress forward, and not to forget.

Tragedies perpetrated against First Peoples of Canada have separated families, banned traditions, displaced identities and all but eradicated entire ways of life, leaving many people marginalized and invisible to systems of governance that failed to value them. Instead of trying to learn and share, dominant society rejected and disenfranchised indigenous people. A lot of what went down is only now coming to light, through the courage of elders who shared at Truth and Reconciliation events (our own version of South Africa's Reconciliation Days after apartheid) and in emerging books. Much was lost to all of us in the meantime, and we're still recovering.

About 6.2 per cent of Albertans identified as Aboriginal in the 2011 census, making up three per cent of Alberta public post-secondary program students. However, many Aboriginal Albertans struggle with disadvantage, much more likely to be victims of violence and homicide compared to non-Aboriginal people. The proportion of First Nations identified people in Canada has steadily risen since 1996, to 4.3 per cent in the most recent census, and a lot of these new Canadians are young. Aboriginal youth are currently over-represented and at higher risk of death within the provincial child intervention system. We are all, even the youngest, touched by the lasting damage of colonial atrocities.

Yet through all this, Aboriginal people in Canada have a lot to be proud of. With Aboriginal art, language and leadership in resurgence, we have a second shot at getting to know Aboriginal culture. When we know ourselves, we can move forward. When we know each other, we're better neighbours, more equipped to watch out for one another. Community gatherings like those held on National Aboriginal Day help us to build the visibility, awareness, inclusion, respect and mutual support that keeps everyone in our communities safer. On the long road to redemption, freedom and friendship make light travel.

The numerous up-and-coming Aboriginal youth bring with them boons to this country's economy. Programs like Indspire, which funds education through scholarships and bursaries for learning resources, provide greater access to tools for innovation. SiksikaTel, the Métis Settlements General Council and the First Nations Development Fund exemplify just a few of the more renowned gains to our area alone. New generations are vamping up the pride and traditions passed down by ancestors and restoring honour along the way. This year, Maskwacis joined a growing number of legacies in reclaiming its Cree name, which hopefully gives the community strength in the long term. The Neka'new'ak ("ones who led the way") Walk of Honour at Beaver Hills House Park commemorates filmmakers and artists who have raised the profile of Aboriginal talent in Canada and abroad.

We should all, especially students, take the time to celebrate this National Aboriginal Day. How often is ending the erasure of history as easy to swallow as partaking in a bannock fry? Edmonton.ca has a page dedicated to the holiday, including a schedule of attractions. The fun ranges from educational to social to spectacle; there's usually food, as well as activities for all ages. The weather forecast for Edmonton looks lovely so far, and it's also summer solstice, so there should be plenty of daylight. Find out what's happening near you, or contact a community group in your area and volunteer to help host an event.

Culture is built upon shared experience; why not go out and build some this June 21? Then, get a head start on next year. It's going to take time, but we'll get there, together.

**Shandi Shiach**  
OPINION EDITOR



JESSICA HONG

## #YesAllWomen reveals truth for all men



**Peggy Jankovic**  
OPINION STAFF

In recent weeks, a feminist movement has taken Twitter by storm. It's called #YesAllWomen, and in its first weekend, it trended higher than the Kardashian wedding. The scale of #YesAllWomen demonstrates the value in sharing stories and realizing that none of these experiences are isolated incidents; they're reflective of a larger misogynist culture. Whether it means re-mapping your running route to avoid passing by construction workers or being afraid to speak about your assault for fear of victim blaming, most women have their own take on how the threat or actuality of male violence shapes the way they live.

This movement happened as a response to two major recent events. First, the "Not All Men" meme's rapidly increasing popularity: #YesAllWomen's aim is to poke fun at those whose first response is that "not ALL men are like that" when women speak about the ways sexism has affected their lives. That defensive answer does not do anyone any good. Sure, not all men have been knowingly violent toward women, but all women do live with the threat of male violence every day. In this context, #YesAllWomen aims to shed light on the ways that misogyny affects the everyday lives of women — something men may not be aware of at all. Is it not almost endearing explaining to male friends why you'd prefer not biking through the river valley after dark, or why your parents insist you take a cab rather than the bus late at night?

The second catalyst was the Elliot Rodger, Isla Vista murders on the night of May 23. Whether or not mental illness was a factor in his rampage, his 140-page anti-woman manifesto and unsettling video blogs signal that Rodger's misogyny was a source of his



SHANDI SHIACH

deadly anger. What allowed his extremist ideas to go unchecked? See, none of his sexist, entitled views were cause for alarm because that brand of misogyny is really not all that out-of-place. He found solace in the online Men's Rights community, and the world is definitely already full of young men upset that attractive women aren't sleeping with them, like, every second.

Of course, no online feminist movement ever makes waves without some backlash. Some responses ranged from people simply getting tired of these tweets taking up space on their Twitter feeds, to more malicious men's rights activists dismissive or violent replies. Funny enough, I'd argue that this opposition ironically proves why #YesAllWomen is necessary in the first place. As well, to those unhappy at feminists pushing their agenda onto the media coverage of the Elliot Rodger case, I say: what agenda? The belief that women shouldn't be slaughtered just for not giving one entitled man exactly what he wants, always? When there are so

many men who support Rodger's assertion that women not being attracted to him is grounds for him punishing them, something really has to change.

One of my favourite #YesAllWomen posts pointed out that the odds of being attacked by a shark are about one in four million, while a woman's odds of being raped are one in six. However, being afraid of sharks is seen as entirely rational, while being cautious of men is viewed as man-hating.

If you are a man reading up on this movement and getting uncomfortable at the fact that these tweets seem to be directed at all men, remember: this is not about you. Though not all men have been purposefully misogynistic, and not all men have acted violently against women, all women do live with the threat of male violence. #YesAllWomen offers men a chance to learn how male violence and gender-based injustices affect women. This is a time to step back and offer support to the women who take the chance to break their silence and share their stories.



# World Petroleum Summit boycott highlights global linkage between Alberta energy and Ukraine crisis



Lola Adeyemo  
OPINION WRITER

The Alberta government, alongside the government of British Columbia and the federal government of Canada, is discouraging business executives from attending the World Petroleum Summit in Russia over the crisis in Ukraine. The boycotting of the summit, which will take place in Moscow June 15 – 19, is another blow to the already strained Canada-Russia relationship that is a consequence of the happenings in Ukraine.

In this conflict, energy has been used as a strategic tool for promoting and protecting national interests. The economic advantage of energy supplies from Russia seems to have come at a political cost to some of its buyers. Whereas Ukraine relies heavily on subsidized gas from Russia, some western European nations are also energy-dependent on Russia. When Gazprom, the Russian gas provider to Ukraine, announced plans to cancel Ukraine's 30 per cent discount on gas and ordered the repayment of Ukrainian debt, the economic implications of the decision were viewed as a means of destabilizing the Ukrainian economy.

Since there is a link between economic progress and political

advancement, Ukraine remains in a tight spot. Meanwhile, sanctions placed on Russia by international actors have taken into consideration Russia's positioning within the energy supply framework. There has been fear that an escalation in the crisis could potentially hurt the German economy. Since Germany is a major player in the EU's economy, the possibility that Russia could "turn off the tap to Europe" as retaliation for sanctions is threatening to the European economy that is still recovering from its economic woes of 2008.

Still, the idea that Russia will give up on its 40 per cent share as a gas supplier to Germany, for example, seems unlikely. Therefore, the danger to Germany is pretty slight, even as Moscow and Kiev discuss Ukraine's gas debt. Russia also depends on the revenue from energy sold in Europe, with about 60 per cent of Gazprom's income related to gas sales in Europe. But, the disputes in Ukraine have led Russia to look to other sources of revenue. As Russia's ambassador to Canada indicated in March, there was a possibility of a pivot toward the East. This seems to be the route Russia has taken with the China-Russia energy deal that was recently signed. However, there are still questions as to how the EU will solve energy security, considering the current instability in Europe. As such, what role can Canada play in supplying

energy to Europe?

Although Canada does not have the infrastructure to currently supply energy to Europe, positioning itself as a future collaborator on the issue might be beneficial in case some European countries seek new energy partners. In fact, Canada's foreign affairs minister, John Baird, has said that this crisis in eastern Europe has cast such a shadow over Europe that Canada is seen as "one of the only countries with substantial oil reserves that is both an open economy governed by the rule of law and a stable liberal democracy." Distancing Canadian businesses from the World Petroleum Summit in Moscow reinforces Canada's stance on the issues involving Ukraine. Other demonstration of Canada's commitment to its allies in Western Europe might be essential if the energy supply balance begins to shift as a result of this crisis.

Bard said that "if anything [the Ukrainian crisis] underlines the importance for moving ahead responsibly on the export of not just our oil but natural gas. And it's a reminder, it's an important reminder that not all opportunities are exclusively south of the border, or in the Asia-Pacific region, but also to our traditional allies in Europe." Certain estimates reveal that infrastructure for energy exports could take around five to 10 years to develop. Yet, it remains to be seen whether the political will is available to connect Canada and Europe on energy issues.

# Childcare in Alberta needs overhaul



Holly Detillieux  
OPINION WRITER

Childcare in Alberta is not government-funded, despite being a necessary service. Canada-wide, it's funded differently between provinces, with only minimal reimbursement from the federal government, which is afforded only to parents, not other caregivers. Provincial governments usually must decide how it is provided and funded, if at all. The universalized childcare system that is used in Quebec could serve as an effective model for a more socialized childcare system in a province such as Alberta.

As it stands, Albertan childcare centres tend to be not-for-profit or low income, and are funded primarily by clients, not the Alberta government. This leaves a majority of Albertan parents to pay out-of-pocket for the service. There are subsidies available through the provincial and federal governments that provide financial help for low-income families to pay for childcare services. The federal government offers the "Universal Child Care Benefit," which provides a \$100 monthly reimbursement to families for every child under the age of six, with a maximum of \$1,200 yearly. In Alberta, available subsidies allow households that make less than \$50,000 yearly to access maximum financial help.

This use of subsidies and reimbursements is different from the universalized childcare system used in Quebec, which is better than giving an allowance-like subsidy to low-income users of childcare. Today, Quebec is the only example of a universalized



SUPPLIED: JIM PENNUCCI

childcare system in Canada. It has been functioning as such since 1997 and has shown results such as care providers boasting higher levels of education. The publicly funded nature of this system has a variety of benefits particularly for women, single parents, low income families and childcare workers.

Women in Canada are disproportionately responsible for the care of their children. Having to pay for childcare may deter young mothers, whose income levels are also disproportionate compared to average, from returning to the workforce or else simply disadvantage them further with high childcare costs. Even in a two-parent family situation, it is not always a possibility to have one spouse stay home their children, due to financial circumstances. When we factor in single-parent families, it becomes even more evident that for some, it is simply not a possibility to stay at home and care for one's children. This makes the cost of paying for childcare a nearly unavoidable financial burden for disadvantaged groups. A universalized childcare system would help to maximize the earning potential for working mothers, who

will have an easier time re-entering the workforce. When not paying for childcare out of pocket, women may more easily advance in their chosen careers and bring in income for their families, without having to worry about where their children are while mom works.

A less obvious, yet arguably important, benefit that has risen from Quebec's universalized system is that it has improved the education level and pay of childcare workers. The wages of Quebec childcare workers are about 40 per cent higher than that of workers in the same field in other provinces. The national average for the yearly income of childcare workers is around \$22,500, which is below the national Gross Domestic Product per capita. Childcare is a woman-dominated field, so to have its workers be so underpaid in Alberta, and the majority of Canada, works to widen the gender wage gap that is still present in this country.

If the Alberta government were to adopt a universal childcare system our province may see similar improvements. It will take investment from the province to make this possible, but the benefit to young families would be well worth the investment.

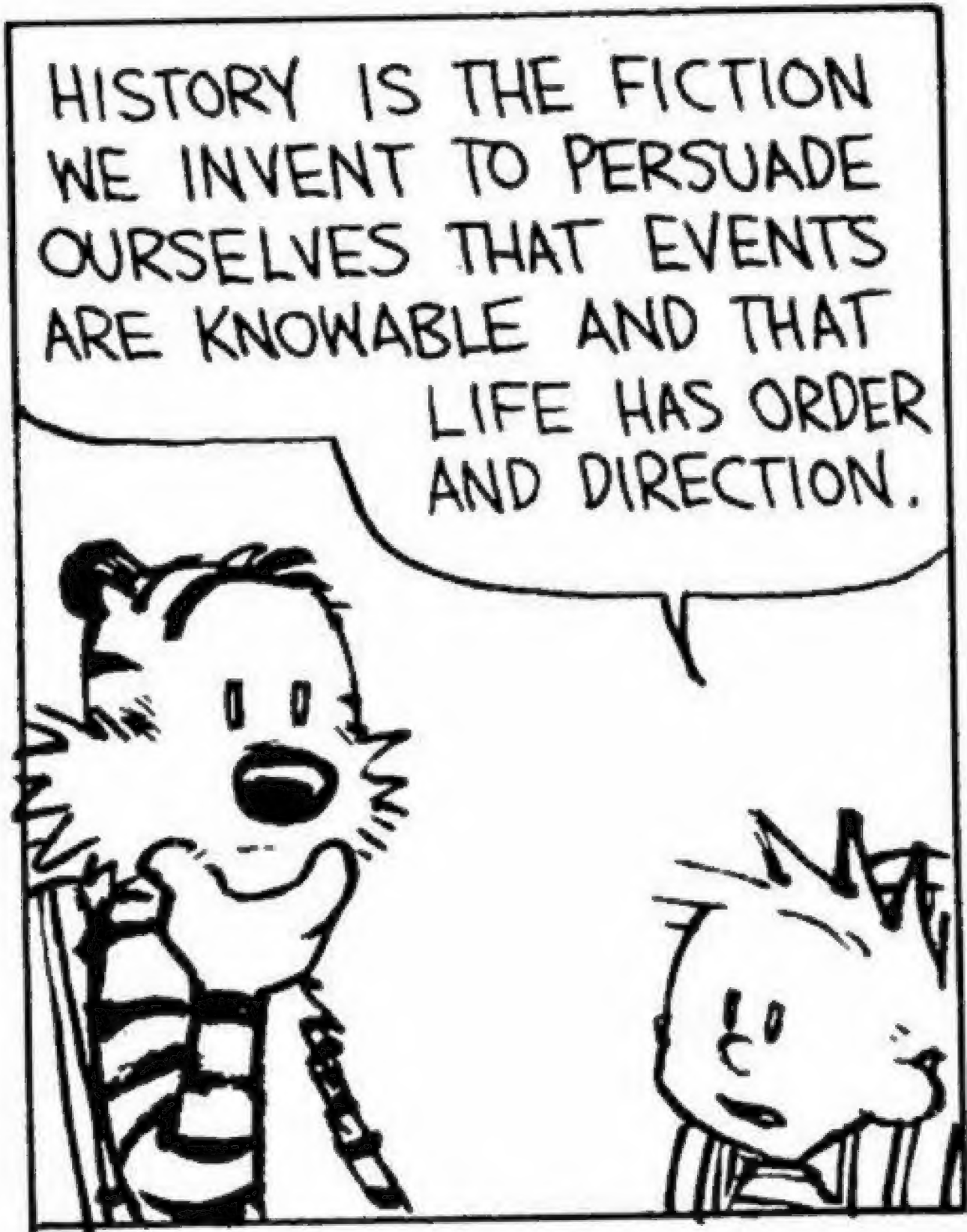
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# University is a bubble that may be ready to burst



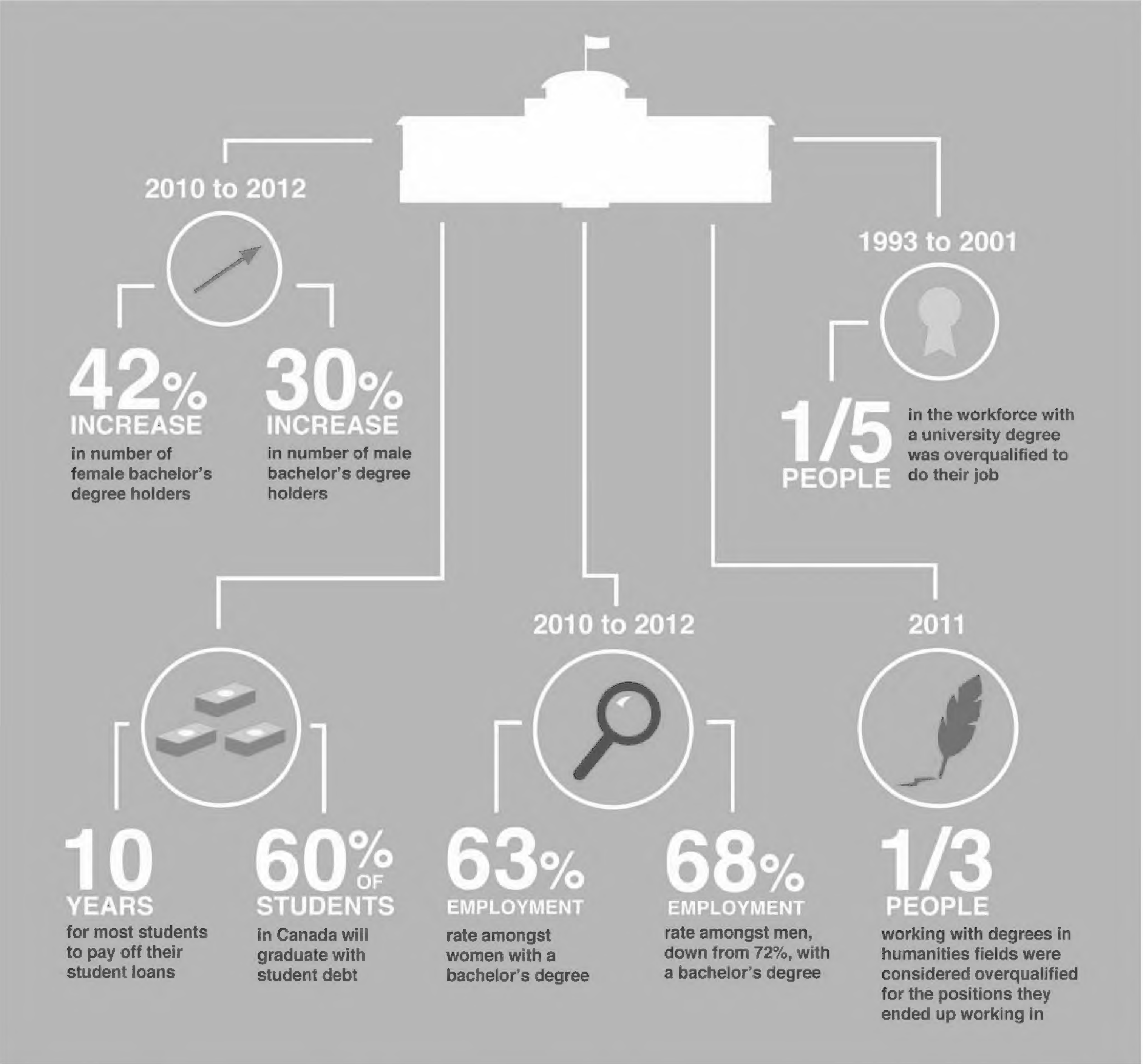
**Hannah Madsen**  
OPINION STAFF

One issue close to every student's heart is the value of a post-secondary degree. The rhetoric used by every university emphasizes learning because of passion for a topic, studying for the sake of studying. But, given the oversaturation of the job market with university grads and rising tuition costs, getting a degree has become a necessity for multiple reasons, many of them not related to an academic passion. This is particularly problematic because it has skewed student motivations and the associated university environment.

Back in 2011, a writer by the name of Crawford Killian predicted a rise in the number of university grads getting degrees and the perpetuation of a "post-secondary bubble" — a situation similar to a housing bubble — in which the number of graduating students would rise every year, as would the costs of tuition. All of these increases would create an environment where potential students are less likely or able to justify post-secondary education, and eventually the potential benefits would not outweigh the costs of getting a degree, because it may be more cost-effective for employers to train their own people than to pay a degree-holder's salary. The bubble would burst.

Fast-forward to today. A number of Killian's predictions have come true: tuition has risen every year, and the job market has indeed become oversaturated with university graduates, to the point where postgraduates who have attained undergraduate degrees seek graduate degrees to set themselves apart from one another in job competition. Another factor in this bubble creation that hasn't been addressed, but is very important, is the willingness of the government to give out student loans, which students are sometimes unable to pay back because of the exorbitant amounts needed to cover student expenses. Admittedly, this is more of a problem in the U.S., because student loans there are not capped, and tuition tends to be substantially higher.

All of this adds up to create an intensely stressful job market that makes it difficult for recent grads to succeed. More than ever now, a university student must consider whether their degree will get them a job, and weigh that



**DEGREES EVERYWHERE** Facts and figures gathered from Statistics Canada and United Food and Commercial Workers Canada.

JESSICA HONG

possibility against a perpetually increasing student debt riddled with tricky interest rates and risks of potential bankruptcy. This toxic environment is bad for universities, because it undermines their status as institutions where learning for knowledge's sake is the goal and degrades the experience passed along to students.

Most of the time, students are told that what they study should be their passion and something they can be happy doing for the rest of their lives. That idealism is great — more often than not, beliefs and passion will get students involved with academia and sustain them through the trials that may come with further studies. But when the job market is set up in such a way that following what you're passionate about isn't feasible, students tend to pick more practical degrees that will give

them quantifiable skills, leading to higher enrolment in, say, business degrees over drama. This skewing of fields is harmful to the university environment; it detracts from the basic premise of a university as an institution of higher knowledge

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wherein all disciplines are valued, and individual disciplines and departments suffer when they do not attract passionate students.

One of the many problems with this situation is that it is not easy

to fix. The job market is messed up, and at this point, there's a feedback loop of sorts: the market is oversaturated enough that bachelor's degrees have become a baseline for many entry-level jobs, so more people seek degrees, in

turn perpetuating the saturation of degrees in the market. Adding entry-level jobs that are flexible and can be adapted to different skill sets could even out enrolment between different disciplines, but

even that is a difficult solution to put into practice because it involves predicting market shifts and enrolment trends.

It's entirely possible that the only way to fix the system would be to have it collapse, letting the bubble burst and allowing both the labour market and the post-secondary environment to, in effect, be reset. It would be pretty bad for all concerned, because there would be a devaluation of already-attained degrees, a decrease in enrolment for universities and, of course, a decrease in qualified graduates for employers, but the situation right now is poised on the edge of this kind of disaster, and if it goes south too quickly it will cause chaos for all involved. But, in the long run, it may allow universities to return from commercial job-filling marketplaces to institutions of learning.



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# Environmentalists vs. humanitarians — you can't be both



**David Kim**  
OPINION WRITER

The Green movement is largely a product of 21st-century thinking. While the Industrial Revolution sparked mankind's potential for large-scale environmental degradation, it also woke something in our moral conscience that is uniquely human: a sense of responsibility for our planet.

By extension, we understood that we are not an entity divorced from our surroundings but rather an integral part of it — environmental destruction would assure ours as well. Thus, the Green movement, it could be argued, is not so much a struggle to preserve the environment as it is a fight to preserve human life.

The battle for green living faces a looming obstacle, however. Unlike deforestation or climate change, this threat is far more complex and subtle.

It is estimated that the global human population will reach 10 billion by 2050. Of course, nobody knows exactly how high the number can go, but it is expected to peak at 15 billion by the end of the century; the boom is projected to arise mostly from low-income countries, whereas affluent countries expect only moderate escalation.

Apart from the obvious — food, water, and shelter — these additional, and mostly poor, occupants of Earth will demand one other thing in abundance: energy — and they are going to want it cheap.

The hidden cost of cheap energy is that it is usually dirty. Coal, oil,

and gas (combustibles) produce millions of tons of greenhouse gas every year, whereas solar and wind (renewables) produce little to none.

Disappointingly, combustibles account for 90 per cent of global energy usage. Even more disappointing, and quite surprising, is that global demand for combustibles is expected to rise in the coming half century; abundance of untapped reserves compounded with relatively low overhead cost makes a compelling argument for its continued use. Even with increasing popularity and advances in renewable power, it is still negligible as a serious contender in the global energy market. So for now, it seems, combustibles are here to stay.

Developing nations rely almost exclusively on combustibles to power their economies. Countries like India and Brazil, poised to become economic powerhouses in the coming decades, will need huge sums of cheap energy to fuel their growth. This overwhelming demand will create extremely lucrative markets too difficult to ignore for energy suppliers with billions of potential customers on the line. Simply, the vast majority of fuel burned in the next 50 years will be done so by the poor.

Knowing this, we return where we left off. It seems clear that population increase will become the driving force opposing the Green movement. The sheer magnitude of developing population rise guarantees levels of pollution unprecedented in human history.

However, as stated earlier, the Green movement is as much of a fight for the environment as it is for human lives. How about human livelihood?

After all, without an influx of cheap energy to power essential



**CAMPUS LITTER** There's more to maintaining the atmosphere than picking up trash — but you still should!

CHRISTINA VARVIS

infrastructure, developing countries will struggle to grow their economies. As the number of people will grow disproportionately to the number of jobs, houses, and schools needed to support a reasonable quality of life, their citizens will remain largely uneducated and poor, forever scraping by. Things we see as basic rights here — the right to pursue education, wealth, material goods — will be denied to billions.

As citizens of affluent countries, it is easy to place high value on environmental protection,

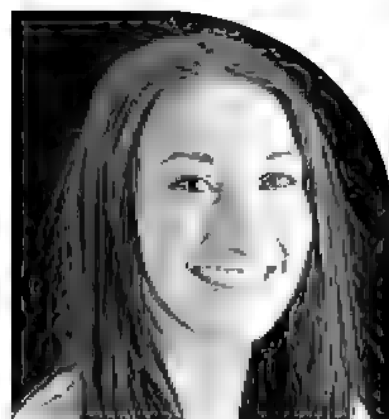
because we seldom associate our privileges with environmental cost. Rather, to us, the fight for green lies out there, manifested by Big Oil clubbing baby seals. But for a parent in rural India, what weight does "green energy" hold when they cannot find jobs to pay for their kids' education? Would they find comfort in knowing that at the expense of their country's economy, the world is a greener place? Unlikely.

Overpopulation is a tricky subject. While we all recognize, and even cherish, an individual's right

to exist and reproduce, at a distance, individuals blend together to become a massive problem, at least from an environmental perspective.

So it seems the cost of green is the well-being of billions of lives. The problem is a moral and philosophical one: our growing population will need a healthy planet to live on, yet what good is a clean planet if the majority of its occupants are destitute and miserable? Humanitarians and environmentalists, it appears, have an interesting stretch ahead of them.

# Fashion mag fad feminism article doesn't stand up to scrutiny



**Kate Black**  
MANAGING EDITOR

Ah, June. The sun is out, the birds are singing, and female self-loathing is descending on every pool deck and beachside from sea to shining sea.

Iterations of the term "beach body" are spanked on the cover of every women's magazine and paired with a catch-all weight-loss plan. Girls, in turn, compare thigh gaps with Instagram models and wonder if their hips spill too far over their string bikini, whether their bust is too small, their butt

— just a little — too big. There's no doubt that the culture surrounding bikini bodies is burdensome, but it's time to call it out for what it is: an unnecessary, and sometimes dangerous, myth.

In the high-season of girl-hate, it seemed like *Cosmopolitan* magazine finally got something right, for once. On May 19, *Cosmo* posted an article titled "6 Swim Looks That Will Make Absolutely Every Woman Look Freaking Hot," in which they reassured their puzzled readers like an almost-feminist mirage in a depressing desert of juice cleanses and ab pics: "Don't buy into all that toxic noise about 'pear-shaped women need to wear this and plus-size women need to wear that' ... No matter how big, skinny, or fit you are, all of these are guaranteed to

make you look like a hot piece on the beach this summer."

The listicle is illustrated with thin and full-figured women alike, and, unlike the slew of most publications, doesn't suggest women with curvy hips should wear waterproof pantsuits to the beach. According to *Cosmo*, all women can rock high-waisted swim bottoms or string bikinis if they want to — who knew?

But the choir of rejoicing body-positive angels comes to a screeching halt when you visit the website's Health section. The third header from the top? "*Cosmo* Bikini Diet." After clicking on the link to the diet, you're greeted by a bikini model plastered with an obnoxious "LOSE 15 POUNDS (or more)" in hot-pink lettering and

a marketing ploy for their new weight-loss book.

The trend of superficial, feminist-sounding rhetoric in mainstream media, employed by the "6 Swim Looks" article, at least provided some glimpse of a hopeful message for women. This is sadly undermined by the weight-loss content, through which the magazine succumbs to its classic ways of policing female bodies into a narrow frame of acceptability. Not only is this disappointing, but it reveals a darker issue in the commercialization of women's self-image.

The concept of a "beach body" being something that's achieved through strict diet and exercise regimens creates the idea that only a certain type of body — fit, thin and toned — is acceptable to be seen

in a bathing suit. The beach body is an unattainable ideal; no matter how fit a girl may seem, she's more than likely to be feeling some sense of body shame. Women of all sizes are conditioned to believe that they are constantly in a journey of self-improvement — capitalism's marriage with the male gaze is one hell of a drug. Really, what's thought of to be an achievable standard of beauty is really just creating a poisonous, hamster-wheel culture of body hate.

So, screw the *Cosmo* Bikini Diet. The only "real" bikini body is, after all, just your already amazing body with a bathing suit on it. Eat whatever and work out (or don't) to whatever extent makes you feel like a healthy and happy misogyny-crushing mermaid queen — not *Cosmo*.





# M EAT-ING IN THE IDDLE

WRITTEN BY SHANNON KOVALSKY • DESIGN BY JESSICA HONG • PHOTOS BY CHRISTINA VAARIS



When Debbie Parker became pregnant with her first child, she had to make a difficult choice. As a vegetarian, she felt she wasn't providing herself with proper nutrition, so she started eating meat again.

Parker, co-owner and chef at Edmonton's Highlevel Diner, learned that even when we want to, it's not always possible to be a vegetarian. She chose instead to make a switch to support humane meat in her personal life and with her restaurant.

The Highlevel Diner's local meat producers advertise themselves as hormone and antibiotic-free, organic and free-range. The farms are a part of the larger slow-food movement in which they forego the cages and hormones used in large industrialized farms, giving the animals a more natural life. Animals raised in these farms take longer to grow before they're ready for slaughter, and inevitably the final product costs more. Many restaurants are unable or unwilling to pay the higher price. Local producers say producing humane meat is worth it — but at what cost?

When Highlevel Diner first opened their doors at their Garneau location on the corner of 88 Ave. and 109 St. 31 years ago, a customer dining out had to do their research if they wanted the variety of vegetarian options available today.

Still, Parker says, Highlevel has consistently met customer demands from the beginning by being one of the first restaurants to offer vegetarian options in Edmonton. Now, the restaurant is known for their homemade menu items from local producers. But they didn't always advertise that way, until customers asked and they realized they were already part of a trend.

"For many years we were supporting local producers but we never really said anything about it because it was just sort of the

norm," Parker says. "Then, when it became a big deal, we thought maybe we should say something because people would ask."

Meadow Creek Farms, Highlevel's pork producer, sells humane meat raised without hormones, unlike animals in factory farms which are often given Rumensin — a drug that forces animals to eat more and grow faster — in their feed. Meadow Creek is a part of the slow-food movement and their animals are allowed to grow at their own pace, outdoors, until they are prepared for a low-stress slaughter.

Meadow Creek Farms' owner, Mandy Melnyk, usually sells straight to the consumer through the Community Supported Agriculture program because she recognized that most restaurants aren't willing to pay the premium for humanely raised meat. So far, Meadow Creek has 87 members in their program who pay a yearly deposit, which serves as a pre-payment for products they get throughout the year directly from Meadow Creek.

Small farmers still face significant challenges, but Melnyk has a goal to reach 250 yearly members to have the security of a built-in customer base while also making the farm sustainable for the future.

"Part of the struggle for new farmers to start is the infrastructure costs. I'm going into my fourth year and hopefully by (my fifth or sixth year) I won't have to buy any new buildings or fencing material for a few years," Melnyk says. "Then I might actually be able to make a small profit and it will be more sustainable."

Like Melnyk, Ron Hamilton, who runs Sunworks Farm in Armena, Alberta with his wife Sheila, tries to go straight to the consumer as much as possible because he's found that in some cases, restaurants will use the "certified humane" label as nothing

more than a selling feature. Sunworks provides humanely raised and organic meat products to farmers' markets in Edmonton, Calgary, Camrose and St. Albert.

"(Restaurants) want to have a local product, and they want to have an ethical product on their menu, but a lot of times aren't able to pay for that product. This product does come with a cost," Hamilton says.

"Restaurants want to do it, and we get requests, but what happens is we send them the price list and we don't hear from them, or if they do buy, they'll buy for a while and they quit buying. But our name stays on the menu for a while."

Hamilton wasn't familiar with raising animals before swapping city life for farm dwelling in 1992, and found that humane and organic farming was just a natural progression in his support of animal welfare. He recognized that in order to farm true to their values, they'd have to face demanding challenges that conventional farmers don't experience.

"We'd never raised animals in a conventional way before and when we started raising animals that were out of doors," Hamilton says. "Not being farmers for generations, we weren't exposed to conventional ways, so the non-conventional ways were what we found natural and how we felt animals should be raised — in the summer time, free range."

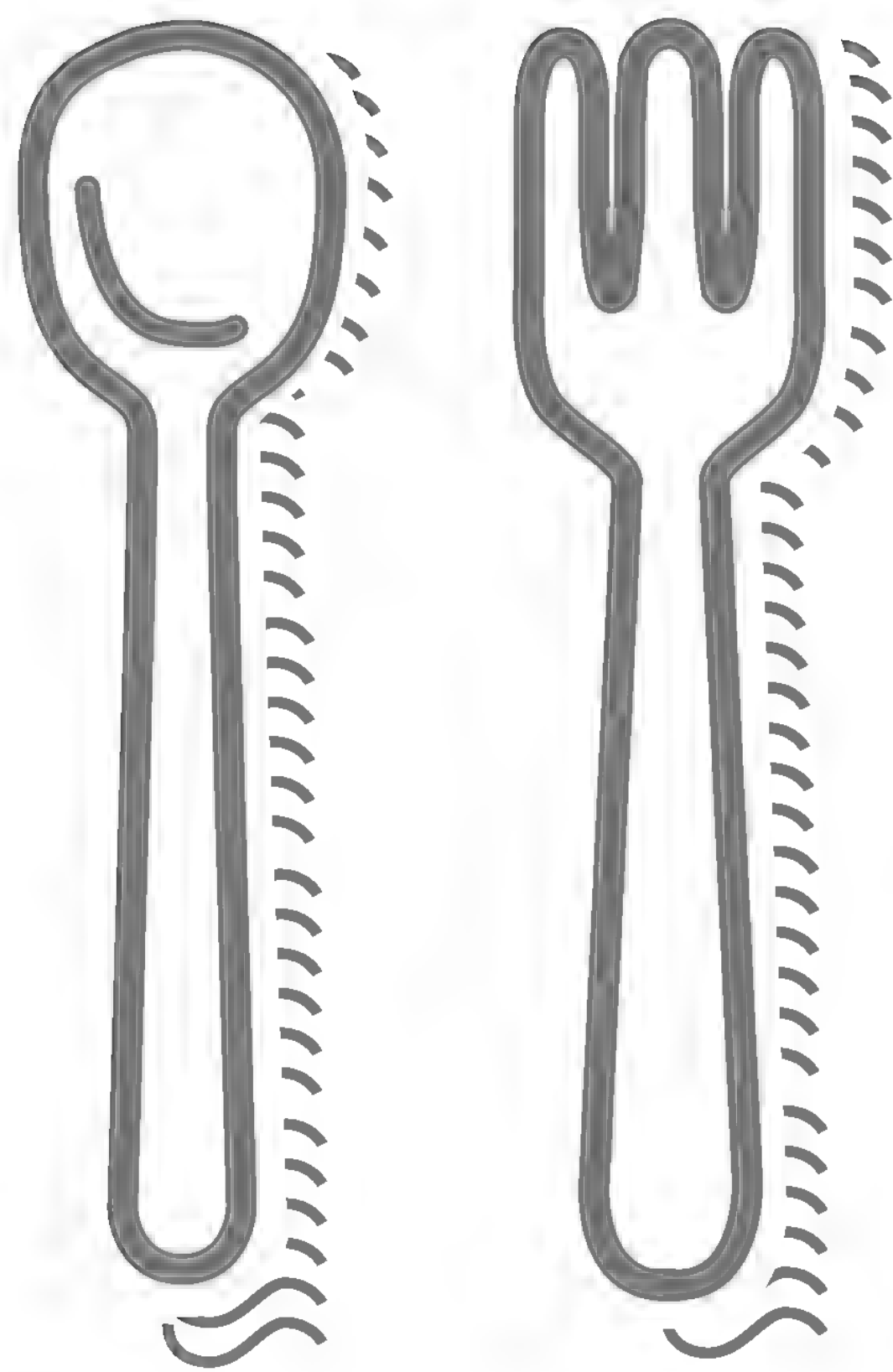
**"Pork doesn't sweat, so everything the skin of a hog touches, is what you eat."**

MANDY MELNYK  
MEADOW CREEK FARMS

Parker, co-owner and chef at Edmonton's Highlevel Diner, learned that even when we want to, it's not always possible to be a vegetarian. She chose instead to make a switch to support humane meat in her personal life and with her restaurant.







**“Not being farmers for generations, we weren’t exposed to conventional ways, so the non-conventional ways were what we found natural and how we felt animals should be raised — in the summer time, free range.”**

Ron Hamilton



On the other hand, University of Alberta faculty service officer and cattle veterinarian, Richard Uwiera has noticed an improvement in the welfare of animals in factory farms, though they’re still largely considered less-humane than smaller organic farms that believe in raising animals outside. Next year, Uwiera will be taking over the Faculty of Agriculture, Life and Environmental Sciences’s course on Animal Welfare with a focus on the ethics and welfare of animals in agriculture.

“I think historically, there’s been a real progression in agriculture. In general, farmers try their best to raise animals humanely, with the few exceptions,” Dr. Uwiera says. “The farmers or ranchers...do their best effort to raise animals humanely, which means you put them under less stress, you give them the right shelter and protection, you feed them correctly, because in essence an animal that is treated better will do better.”

Ultimately, Dr. Uwiera says, farmers want what’s best for the animals because healthy animals make better products. He would even make the case that animal welfare in a factory farm versus a humane-certified farm isn’t all that different, and that it will come down to a consumer to decide if the difference is worth the extra cost.

“(Factory farms have) made larger cages...so they are becoming more humane. They are definitely not at the same advantage as a free-range animal, but they are better, there has been an improvement...Consumers want the animals to be treated humanely and this is the important part; the farmers are willing to do it, but someone’s going to have to pay for that difference. Are the retailers willing to do it? Some are.”

To small organic farmers like Melnyk though, there is still a difference between her farm and industrialized farms, not just in the raising of the animal, but also in the finished product.

“Pork doesn’t sweat, so everything the skin of a hog touches, is what you eat. So when you get a factory-finished hog, that’s sitting on the cement in those barns in its own byproduct, that works into the skin. That’s a big reason, the flavour you get from my pork, the barley gets so many flavors and it’s incredible and just being outside. I don’t believe animals are meant to be confined — not a healthy animal,” says Melnyk.

Hamilton agrees that because his animals are raised in a humane environment that simulates nature as much as possible, his meat is cleaner and has a greater flavour than meat from conventional, factory farms.

“In the winter time and we go indoors, we have to have natural light, and the animals do very well in this program that mimics nature, and in summer the mortalities go down considerably,” he says. “As far as eating the animals go, there is tremendous flavour. From an animal welfare point of view, we don’t have a massive

**“Restaurants want to do it...but what happens is we send them the price list and we don’t hear from them...or they’ll buy for a while and they quit buying.”**

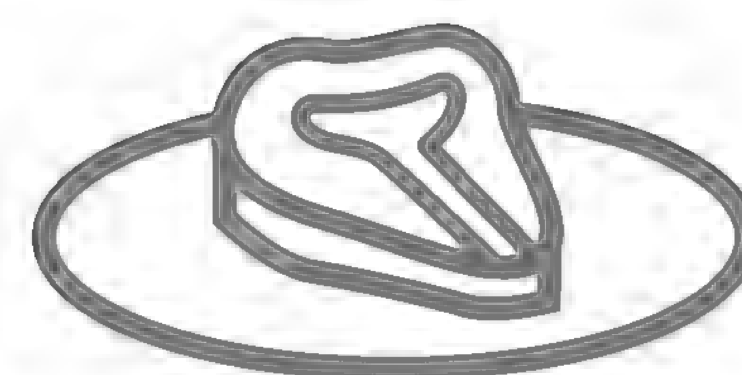
RON HAMILTON  
SUNWORKS FARM

amount of heart attacks from feeding them so fast. “Our grass-fed beef, we only do grass fed, and the massive flavour, and it’s so different from what you get in the conventional industry.”

For Hamilton, Parker and Melnyk, the sustainability of smaller farms and the quality of the meat are added benefits in the push for ethically raised meat. And if they agree with Dr. Uwiera on anything, it’s that consumers will have to pay the price for ethical meat, and that they are willing to. Highlevel Diner is just one example of Edmonton restaurants catering to the burgeoning population of health conscious consumers that want to know exactly what they’re getting when they place an order.

We can’t all be vegetarians, even when we want to, as Parker knows. For her, the choice to eat meat again was a question of what was best for herself and her child and how she could reconcile that with vegetarian values. With so many options available today, it’s easier than ever to find farmers that adapt these values into a certified humane product.

“I think there are a lot of people out there that maybe don’t want to go vegetarian — they love their meat and at least if you make the least-impact choices, it’s easier to swallow in a way.”





# Arts & Culture

**A & C Editor**  
Brad Kennedy

**Phone**  
780.492.6661

**Email**  
entertainment@gateway.ualberta.ca

**Twitter**  
@hella\_brad

**Volunteer**  
A & C meetings will resume in September.  
Until then, just email Brad!

## social intercourse

COMPILED BY Brad Kennedy

### K'NEX: Thrill Rides

Runs until September 1  
The Telus World of Science (11211 142 St NW)  
\$14.95 for students

Learn all about the scientific side of theme park design with the Telus World of Science's *K'NEX: Thrill Rides* exhibition. The display features 15 fully functioning amusement park rides, ranging from roller-coasters to carousels, as well as the ability to try your hand at creating your own wild and inventive K'NEX machines. As a rare activity that's both entertaining and educational, *Thrill Rides* encourages whimsical learning with a welcome nostalgic element for anyone who played with the brightly-coloured mechanical connector sets growing up.

### Blown Up

Runs until June 14  
Latitude 53 (10242 106 St)  
Curated by Vicky Moufawad-Paul  
Featuring work by Wafaa Bilal, Harun Farocki and Mohammed Mohsen  
Free Admission

Blown Up, Latitude 53's latest main gallery exhibition, brings together the work of Toronto-based Palestinian artist Mohammed Mohsen, New York-based Iraqi artist Wafaa Bilal and famed German artist-filmmaker Harun Farocki. The installation uses the art of video games reflecting conflict in the Middle East to explore the complex relationships between the politics of the screen and individual power-structures of both game-players and creators.

### 2014 Edmonton Pride Festival

Runs until June 15  
Full list of venues and events at  
edmontonpride.ca/pride\_week/events

Going as far back as 1980, the Edmonton Pride celebrations have long been a staple of our city's summertime festivities. Over the last three decades, events have grown to include poetry readings, art shows, picnics, croquet tournaments, baseball games, a film festival, the parade and Celebration on the Square. Showcasing the unity and diversity of Edmonton's lesbian, gay, bi-sexual, trans-identified, queer community and its allies, the Edmonton Pride Festival spans ten days of celebration for one of the city's most vibrant and colorful minority groups. Come out to any one of the numerous events around town and show your support for E-town's LGBTQ population!

### La Cage Aux Folles

June 13, 14, 19–21 and 25–28 at 7:30 p.m.  
Matinees June 15, 22 and 29 at 2 p.m.  
La Cite Francophone (8627 91 St)  
Produced by  
Two One-Way Tickets to Broadway Productions  
Directed by Martin Galba  
Choreography by Linette Smith  
\$7.50-\$15.00 for Students  
Available at tixonthesquare.ca

*La Cage Aux Folles* focuses around the lives of Georges, the manager of a Saint-Tropez nightclub featuring drag entertainment, and Albin, his romantic partner and star attraction. When George's son, Jean-Michel, brings home his fiancée's ultra-conservative parents to meet them, a series of farcical adventures ensue. The Edmonton debut of this Tony Award-winning musical is an exciting theatrical event, perfectly coinciding with the end of Edmonton's Pride Festival this upcoming weekend.



SCULPTED

## Kita No Taiko celebrates 28 years of the tradition of Japanese drumming

### EVENT PREVIEW

#### Ki

**WHEN** June 14 at 7:30 p.m. and  
June 15 at 2 p.m.  
**WHERE** Timm's Centre for the Arts  
(112 St NW, University of Alberta)  
**PERFORMED BY** Kita No Taiko  
**HOW MUCH** \$15 for students  
at tixonthequare.ca or at the door

#### Brad Kennedy

ARTS & CULTURE EDITOR ■ @HELLA\_BRAD

The art of Japanese taiko drumming has existed for hundreds of years, but its popularity as a form of entertainment is much younger than you may expect. It was only as recently as the late 1960s that taiko came to North America, and Edmonton's own Kita No Taiko — "Drum of the North" — became one of the earliest groups in Canada when it formed in 1986. Now, the 28-year-old Japanese drumming group is preparing to perform *Ki*, an anniversary showcase that will demonstrate not only the evolution of their group, but of taiko drumming itself.

As Alberta's original Taiko drumming group, Kita No Taiko saw more than its fair share of difficulties getting started during the '80s. Founding member Dan Kinoshita recalls how members had to discover and build almost every aspect of their art from the ground up.

"When the group started there was no music, there were no costumes, there was no equipment and there was nowhere to practice. So we had to do all of that," he says. "One of the original members was a Karate sensei, so we would go to his house on Saturday mornings and take out our spare tires and beat on them for a while."

In the beginning, those spare tires were the only resources they had. But over time, the members of Kita No Taiko became more dedicated to their craft, learning how to make their own instruments and costumes, and even writing music for the relatively uncharted genre. Today, the art of taiko drumming has evolved to include dozens of modern influences, with some North American groups incorporating things like tap-dancing, electric guitar, and saxophone-playing into their performances. But despite all the variety that modernity has brought to taiko, it remains a quintessentially Japanese art.

**"When the group started there was no music, there were no costumes, there was no equipment and there was nowhere to practice. So we had to do all of that. One of the original members was a Karate sensei, so we would go to his house on Saturday mornings and take out our spare tires and beat on them for a while."**

DAN KINOSHITA  
FOUNDING MEMBER, KITA NO TAIKO

"All the movements and everything, the rhythm, it's very Japanese," says Yukiko Isaka, one of Kita No Taiko's younger performers. "Anybody in Japan who would hear it would think, 'Oh, that's something very familiar.'"

Masohito Oba, the veteran drummer who recruited Isaka, adds, "To me, Kita No Taiko is made of three components. One is art, or music. Then athletic fitness. And then Japanese culture."

That foundation of Japanese art and culture strongly influences the material that Kita No Taiko performs. Rather than experiment with foreign and electric instruments, many of the arrangements staged in *Ki* have roots in traditional Japanese instrumentation and composition — but there's plenty of new material in the show as well. Sandra Mak, another of the group's younger drummers, describes *Ki* as a medley of Kita No Taiko's repertoire, ranging from their original performance material to a series of brand-new arrangements composed specifically for the show. The three-act performance weaves old and new songs together with a traditional Japanese storyline dance in a joyous celebration of the group's 28-year history.

Listening to the way Kita No Taiko's drummers talk about the show amongst themselves, everyone can find a different message in the performance. Isaka mentions how *Ki* is an energetic showcase of how far Kita No Taiko has come — from banging on spare tires in a member's backyard to an acclaimed group with all their own costumes and instruments, able to share their music and passion with a much wider audience than ever before. Oba talks about how *Ki* is an exhibition of the diversity of his native Japanese culture, and the art that lets him feel connected to his roots. Mak is interested by how *Ki* displays the evolution of the music of taiko, from its solemn origins as a ceremonial instrument of war and religion into the expression of joy, power and harmony it brings her as a musician. It comes as no surprise when they explain that this multitude of themes is reflected in the performance's title.

"If you write it in the Roman alphabet, it's just 'K-I.' But in Japanese, there are tons of kanji that can be applied," Isaka says. "Each one of those characters has different meanings, like 'energy,' or 'starting point,' or 'orbit,' or 'nobility.'"

"Ki is a great title, because anyone can pick out their own meaning."





MONGREL MEDIA

## ***Under The Skin* fumbles its way through an interesting premise**

### FILM REVIEW

### ***Under The Skin***

WHEN > Now Playing

WRITTEN BY > Screenplay by Walter Campbell, novel by Michael Faber

DIRECTED BY > Jonathan Glazer

STARRING > Scarlett Johansson

**Kieran Chrysler**

ARTS & CULTURE STAFF ■ @CHRYSLERRR

In this year's crop of directors trying as hard as they possibly can to be dubbed the next Stanley Kubrick, we have Jonathan Glazer with his newest art-house mess, *Under the Skin*. However, while drawing heavy inspiration from the iconic director's style, the film fails to be anything short of bland, with boring visuals and no plot or character motivation to speak of.

The film is based off Micheal Faber's novel of the same name, and a quick search of the plot of the book gives more insight into the narrative than anything found in the 108-minute indecipherable blob of a movie. Starring Scarlett Johansson as the emotionless and ambiguous main character, the synopsis of the film sounds initially promising: "A mysterious seductress preys upon the population of Scotland." The

reality is much less exciting. Johansson, who we presume is an alien, drives around Glasgow in a nondescript van, making half-assed attempts to pick up single men. Because she's Scarlett Johansson and she's beautiful, it works — and then she kills them. No motivation is ever given for this, because apparently being a beautiful alien is reason enough.

70 per cent of the film is made up of shots of Scarlett Johansson in a van, and the rest is grainy shots of Scotland, ranging from countryside to Glasgow streets. A large portion of the film was shot with "secret cameras," but instead of generating tension and unease, these scenes make the viewer want to jump out of the van and under an oncoming lorry to escape the boredom. The secret cameras were created and attached to the van specifically for the film, but instead of feeling innovative, the shots look like they were filmed by a cell phone. However, not to fret, *Under the Skin* isn't entirely secret camera. The rest of the shots are Kubrickian; minimalist, ominous long shots with one point perspective. In other words; "Oh! How 2001: A Space Odyssey of you, Glazer!"

Scarlett Johansson has three faces in the film: boredom, "sex appeal," and nausea. The first two are found for the first three-quarters of the film, but after a bizarre sexual

encounter, Johansson somehow becomes confused by human culture (while having a full knowledge of how to drive/apply makeup/shop for clothes in the opening scenes), and spends the rest of the movie looking ill. The flirtation in the film is pitifully unrealistic, as Glazer seems to just be banking on the alien being able to pick up single men with a five-minute interaction that is as riveting as "Where are you going? Can I take you? Do you think I'm pretty?"

While Johansson is a beautiful person, random men on the street getting into a stereotypical kidnapping van with a vapid woman is just illogical. The representation is so bland and boring that even the gratuitous nude scenes are tedious, not titillating.

*Under the Skin* is a good example of why the art-house genre gets a bad name in popular culture. The film tries so hard to be minimalist and meaningful that it becomes boring and confusing. If you enjoy creating your own meaning in movies — not because it's a build-your-own-adventure, but because literally nothing about the plot or character is revealed — then you will enjoy this film. Otherwise, you'll probably leave wherever you are watching it bored and unenthused by Johansson's attempt to distance herself from her mainstream superheroine persona.

### ALBUM REVIEW



### **Kai Exos** ***Telegraph***

Self-released  
kaixos.fm

**Brad Kennedy**

ARTS & CULTURE EDITOR ■ @HELLA\_BRAD

Toronto songwriter Kai Exos has already built up a considerable amount of buzz for his debut LP, *Telegraph*, playing shows around the world in venues from Los Angeles to Berlin to Tokyo. It's an impressive feat for an artist without an album to their name, but this fresh new Canadian musician definitely has the chops to back it up: *Telegraph* is a smooth, sultry offering that hits all the right notes of his modern Motown niche.

The tracks cover a striking spread of sound, flowing into one another

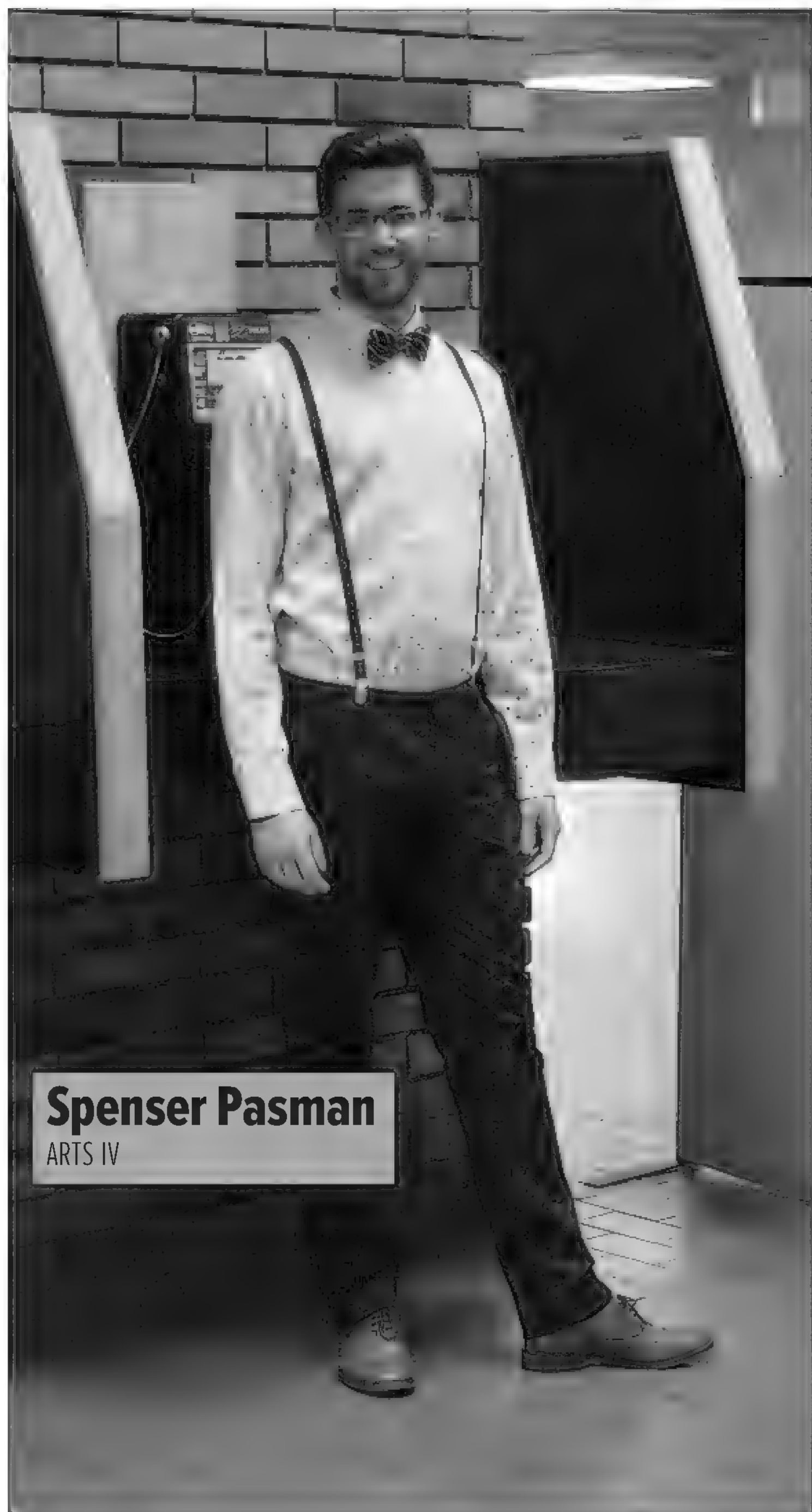
on the album with seamless arrangement from song to song. While there are occasionally similarities in the instrumentals of the album, Kai Exos' vocals make each track a standalone piece of heart-felt expression. Both his voice and the lyrics themselves are pretty exceptional, holding the listener's attention with an almost magnetic quality. The hook on *Telegraph*'s opening track, "Vigilante," is a great example, with poetic lyricism pulling you along through the music as a powerful chorus of singers joins Kai

to sing, "Let our own hands / carry us through and / don't let them escape / til' you know just how / they got over / the walls in our house / oh vigilante / will you protect me?" Even the album's occasional uses of autotune, such as on the track "Goin Away," don't feel egregious or grating; just a regrettable deviation from his natural talent.

As a new voice in the Canadian music scene, Kai Exos has established himself pretty solidly with *Telegraph*. The album's heavy blues and jazz influences are a rare treat in such a young musician just breaking out into the scene, showing a classical awareness and respect for his craft that set him apart from the crowd of people trying to make it into the music industry today. If he can hold onto the individuality and personality exhibited so forcefully on this debut LP, Kai Exos could be a musical force to reckoned with.

## **fashion streeters**

COMPILED & PHOTOGRAPHED BY **Alexandros Papavasiliou**



**GATEWAY:** Can you describe what you're wearing?

**SPENSER:** I'm wearing this lovely polka-dot shirt from Simons, suspenders from American Apparel, a striped bowtie from Scotch and Soda, pants from Simons and shoes from Aldo.

**GATEWAY:** What's your favourite item you have on?

**SPENSER:** My bowtie. I just think that bowties are the cutest thing. They're really adorable, also really attractive. Like when you see a guy with a bowtie and suspenders walk on by you're like "Dayyuumm!"



Check out [thegatewayonline.ca/fashionstreeters](http://thegatewayonline.ca/fashionstreeters) for more photos.



# Largest touring show on Earth sets up tent in Edmonton

## EVENT PREVIEW

### Odysseo

**WHEN** > Runs July 9 to August 3  
**WHERE** > Odysseo Big Top  
 (Intersection of Fort Road and Yellowhead Trail)

**CREATED BY** > Normand Latourelle

**DIRECTED BY** > Wayne Fowkes

**HOW MUCH** > \$39.50 \$239.50 at  
 cavalia.net or by calling  
 1-866-999-8111

#### Brad Kennedy

ARTS & CULTURE EDITOR • @HELLA\_BRAD

The Odysseo Big Top is the largest touring tent in the world. It spans 9,970 square metres of canvas, covering an area as large as two football fields. The tent's frame supports around 80 tons of equipment, and is anchored to the ground by 250 steel plates embedded in the ground by more than 1,000 metre-long metal stakes. It takes a team of 50 people — including a group of specialized tent engineers, flown in from around the world — more than seven days to construct, and requires six kilometres of cable threaded through a complicated series of winches to raise the tent's canvas to the mast. It's one of the most complex, time-sensitive feats of engineering around — and soon, it will host what many hope to be an even more impressive performance under its roof.

Featuring 70 horses, 45 artists and the world's largest theatrical stage, *Odysseo* is a production almost too big to describe. Every aspect of it brims with superlatives, from the biggest touring tent in existence to the largest fleet of

equipment trailers ever imagined. It's the brainchild of Normand Latourelle, Co-founder of Cirque Du Soliel and owner of Cavalia — which, for those unfamiliar with the name, is essentially the Cirque Du Soliel of horse-riding. *Odysseo* is Cavalia's second production, inspired in part by Latourelle's frustration with the physical limitations of their first, eponymous show.

"He wanted more horses on stage, so he wanted more space," explains *Odysseo*'s touring director, Nicolas Zlicaric. "This big top allowed him to have a free canvas where we could create zones for the horses to play around, we could create a lake, we could create mountains and fantastic multimedia backdrops — so we move from the steppes of Mongolia to the savannahs of Africa just by a click of a switch, or pressing a button."

Underneath the canvas castle now looming at the intersection of Fort Road and Yellowhead Highway, Zlicaric and his teams of highly-trained stage engineers are hard at work preparing the artificial world that *Odysseo* inhabits, assembling mountains of earth into a series of rolling hillsides and plateaus for the equestrian performers to frolic upon. Modelled after the landscapes of Latourelle's own farm in Quebec, this terrestrial wonder includes a bevy of hidden technical marvels, the most interesting of which is a pump system that, partway through the show, floods the stage — turning an already elegant display of equestrian acrobatics into an aquatic horse ballet. According to Zlicaric, that's only one of the performance's many miraculous tricks.

"It's a human journey with the horses through those elements, and it's a beautiful thing. We've married



CHRISTINA VARVIS

equestrian arts not only to acrobatic arts, to circus arts, but multimedia plays a huge role in the show. We have dancers and acrobats from Africa who are bringing something completely fresh to this second show," Zlicaric says. "When you put everything together: the horses, the acrobats, the music that binds it all together, it creates emotions that are rarely felt on a day-to-day basis in our lives."

Over the next few weeks, Zlicaric and his crew will gradually transfer the show from its current home in Calgary to the freshly assembled

stage in Edmonton, moving and setting up more than one-hundred trailers worth of equipment in a matter of days before moving on to set up the show's secondary tent in Guadalajara, Mexico, *Odysseo*'s next tour destination. This two-tents-at-once strategy lets Zlicaric and his team leapfrog from town to town ahead of the show, ensuring that there's never a break or delay in the tour of the biggest show on Earth. It's a heavy responsibility, but Zlicaric doesn't seem like he'd rather be doing anything else — three years

ago, he came out of early retirement to take this job with *Odysseo*.

"I couldn't stand still in Montreal. I've been travelling all my life, and that part of the job I really missed. Discovering cities, new people, working in difficult but challenging environments..." Zlicaric says, smiling. "It's grueling, and it's challenging, but we have a beautiful production to show the world. Normand created something fantastic with his creative team, and we're very proud to be presenting this show in Edmonton soon."

## Arts Journalism

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# Firefly fundraiser brings out the acrobat in everyone

## THEATRE PREVIEW

### Let There Be Height

**WHEN** June 11 and 12  
Silent Auction at 6:30 p.m.  
Performance at 7:30 p.m.

**WHERE** Westbury Theatre,  
ATB Arts Barns (10330 84 Ave)

**PRESENTED BY** Firefly Theatre  
and Circus

**HOSTED BY** John Ulyyatt and  
Annie Dugan

**HOW MUCH** \$30 at tixonthesquare.ca  
\$35 at the door

**Sarah Nguyen**  
ARTS & CULTURE WRITER

Created by everyday people for everyday people, Firefly Theatre’s acrobatic fundraiser *Let There Be Height* fuses elements of circus and theatre, youth and age, and the 1940s with the 21st century to bring you a 20-foot spectacle you would never imagine was performed by friends, relatives, and the girl next door. Through silks, trapezes, ladders, and cubes, *Let There Be Height* puts the circus twist in film noir, telling stories to celebrate ten years of performances.

With more than 200 participants and more than 20 classes a week, the program is using the show to raise

funds for itself. Sandra Olarte, an instructor for the theatre — whose personal educational background comes not from the arts, but rather from mathematics — says that in her experience, the program brings a lot to the community.

“(Acrobatics) is a super fun way to stay fit,” says Olarte. “People are very encouraging, and what I’ve found is that everyone really cares about you, and about getting better and having fun.”

*Let There Be Height*’s 57-member cast is selected entirely from the local community, creating a production that accurately reflects the inspirations of the grassroots theatre program. From climbers to trapeze artists to contortionists, the studio hosts participants year-round, garnering attention from youth and adults ages 10 to 55.

Artistic Director Annie Dugan was compelled by the stark, dramatic flair of the noir genre and collaborated with instructors and students in the program to draw inspiration from old films. The crew thought it would be exciting to play with the music, style of movement and atmosphere of the genre, citing its coarse nature as appearing almost comedic to people’s modern sensibilities. The theme lent itself well to the structure of *Let There Be Height*’s narrative storyline, with its iconic villainous and hard-boiled heroic archetypes.

“What I found interesting was it

was really a lot of fun, not nearly as difficult as I thought it would be,” says Dugan. “(The production) fell into place because of the community around here ... it became really obvious — well of course, we have the perfect victim, the perfect villain, the perfect hero. It’s seeing everyone rise to the challenge, that’s my favourite part. Seeing how everyone comes to life.”

Each class of Firefly performers is in charge of a scene and several characters integrated throughout. Olarte mentions the production is a period where the discipline transitions from fitness into art and pushes students beyond their comfort zone.

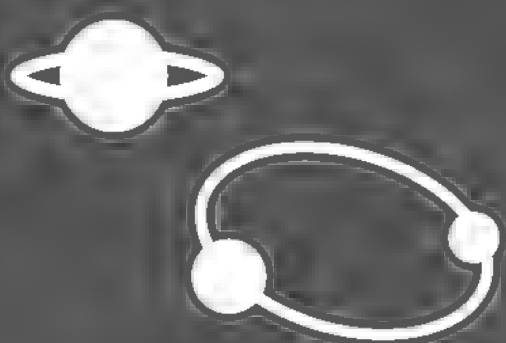
“It’s cool because it makes you grow as a person,” says Olarte. “It pushes you to express yourself through drama and emotion.”

And motivation for the show comes from just that — a drive to attain greater respect for Edmontonians willing to engage in the terrifying and extraordinary, in order to contribute to the thriving atmosphere of the arts in Edmonton.

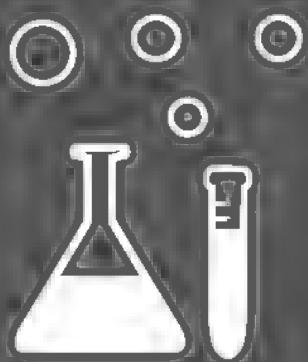
“You make such incredibly visceral images through circus, and it can really help you tell a story in another dimension. It’s like a pop-up book, like 3-D,” says Dugan, about her love for circus art. “It keeps me believing that if you have the passion to create something — just go for it.”



SLIPPED



## LAST MONTH'S FUTURE



In sharp contrast to the idyllic summer pastimes most of us in Edmonton while away the warmer months with, scientists around the globe are making impressive strides in their ability to manipulate memory, emotion, particles, and even death. This month’s inaugural edition of *Last Month’s Future* covers these fascinating breakthroughs and more, including some startling discoveries about the nature of outer space.

**Brad Kennedy**  
ARTS & CULTURE EDITOR • @HELLA\_BRAD

### SUSPENDED ANIMATION

“We are suspending life, but we don’t like to call it suspended animation because it sounds like science fiction,” Samuel Tisherman, a surgeon at the UPMC Presbyterian Hospital in Pittsburgh, Pennsylvania, told *New Scientist*. All genre-fiction skepticism aside, though, that’s exactly what the surgical staff at UPMC plans to attempt in a series of emergency-room “preservation and resuscitation” trials over the coming months. The technique involves replacing all of the patient’s blood — yes, you read that right, all of it — with a cold saline solution, to rapidly cool the body into a state of arrested cellular activity. Once patients reach core temperatures of about 10 degrees Celsius, doctors have a vastly increased window of opportunity to repair life-threatening injuries. Things like serious gunshot wounds, which normally require action in a matter of minutes to save a dying patient, can now be treated over a period of up to two hours while the patient is “suspended.” Early trials using pigs resulted in a 90 per cent survival rate: here’s hoping humans have similar results.

### MEMORY MANIPULATION

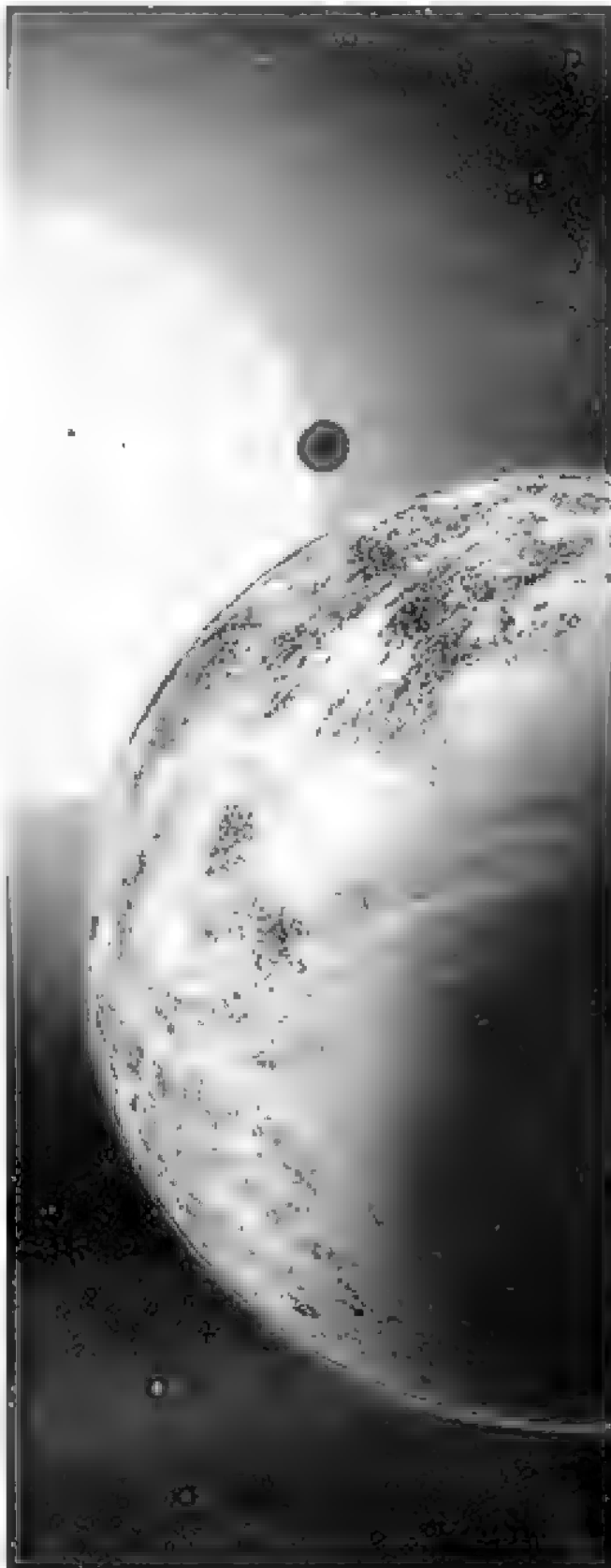
Haunted by your past? Soon, science might give us the ability to inhibit traumatic memories, opening up an entirely new method of treatment for people with anxiety and trauma disorders. The technique, pioneered by researchers at the UC San Diego School of Medicine, involves the genetic manipulation and stimulation of brain tissue using fibre-optic cables. This revolutionary new field of science — known as optogenetics — recently allowed scientists to remove conditioned fear responses in rats. By sending pulses of light to genetically modified areas of the rat’s brain, the UC researchers were able to inhibit the synaptic response that led to the fear reflex, then later restore it. Essentially, they were able to remove and replace the memories that would trigger panic in the rat at will, meaning that this new technique has benefits for both those who want to forget, and those who want to remember. The memory-reinforcing potential of optogenetics suggests we could be on the cusp of a new therapy for Alzheimer’s as well.

### MEGA-EARTHS

Only a few scant days ago, astronomers from the Harvard-Smithsonian Center for Astrophysics announced the discovery of an entirely new type of planet: classified as a “Mega-Earth,” planet Kepler-10c is 2.3 times as large as Earth, and weighs 17 times as much. This revelation turns much of the conventional theoretical knowledge about planet formation on its head. Until now, the common scientific consensus was that a planet of Kepler-10c’s size would naturally form as gas giant, due to its immense gravitational pull. But the mega-Earth is solid all the way through, forcing scientists to reevaluate their understanding of planetary potential — especially in light of the fact that the Kepler solar system is roughly 11 billion years old. This means that the planet was formed at a relatively primitive elemental stage of the universe’s development, 3 billion years after the Big Bang, and could suggest the possibility of other overlooked Earth-like planets closer to our home system.

### QUANTUM TELEPORTATION

Don’t get too hyped up over this entry: teleporters that can get you to work on time in the morning are still years away from our technological grasp. Instead, Netherlands scientists at the Kavli Institute of Nanoscience at Delft University have managed to reliably teleport quantum information between two bits of diamond located three metres apart from one another. That’s one small leap for information, sure, but it’s also one giant possibility for the future of light-speed quantum computing, which would exponentially increase the speed, power and security of modern supercomputers. And the lead researchers on the subject aren’t ruling out the possibility of Star Trek style beam-machines in the far future, either — there’s no law of physics that prevents it, since a human being is merely a collection of atoms arranged in a particular shape. It’s just one of those rare scientific facts that manages to be both astonishingly bleak and limitless optimistic, depending on how you look at it.



KEPLER-10C ARTIST CONCEPT, DAVID AGUILAR

*Last Month’s Future* is a new monthly column in which the Gateway keeps you informed about the latest and greatest theories, breakthroughs and discoveries in the fields of science and technology.



# Sports

**Sports Editor**  
Cameron Lewis  
  
**Phone**  
780.492.6652  
  
**Volunteer**  
Contact by email or phone :)

**Email**  
sports@gateway.ualberta.ca  
  
**Twitter**  
@cooom

## Baseball legacy in Edmonton lives on through Prospects

**Cameron Lewis**  
SPORTS EDITOR • @COOOM

Edmonton has been playing a never-ending game of musical chairs since the Trappers left town in 2004. Baseball in Alberta's capital has been anything but predictable since the Trappers — the AAA affiliate of the Montreal Expos — was sold and shipped south to Round Rock, Texas.

Since the Trappers left, Telus Field has been occupied by the Cracker Cats and Capitals, who have bounced around multiple independent professional baseball leagues. The Cracker Cats existed for three years until they became the Capitals, likely because the name was less ridiculous. As of right now, the Capitals have suspended operations and are seeking a stable league to play in.

Until the Capitals can find a home, baseball in Edmonton will be carried by the Edmonton Prospects — a team dedicated to the development of local college level baseball players.

The Prospects are a part of the Western Major Baseball League (WMBL), which features 11 teams from Alberta and Saskatchewan.

"The league is a summer collegiate league, so the players that play in it are all college-aged players," Prospects head coach Ray Brown said. "It's a developmental league for guys who want to go further with their baseball, so they come to this league to improve on their skills and play some pretty



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competitive baseball."

The Prospects have finished last in the WMBL since they relocated to Telus Field, accumulating only 12 wins in 90 games over two full seasons. Brown said their lacklustre record isn't an issue.

"I mention to our players, if we

go out there and play to the best of our ability every night, we may not like the result, but we can live with the effort," Brown said. "We can't guarantee that we can win every game, but we should be able to guarantee that we play hard every game, and that's what we

stress."

There has always been interest in baseball in Edmonton, but the difficulty has been in finding a suitable team that can afford to stick around for an extended period of time.

Founded in 1981, The Trappers

enjoyed two decades of success in Edmonton, winning six division titles and four league titles before their relocation. Attendance for Trappers games at Telus Field was strong year in year out, so the team's relocation wasn't the fault of Edmonton residents.

The issue faced by the team's owners was the cost of travel around the Pacific Coast League (PCL), which featured teams predominately in the southwestern United States. As soon as their provincial rivals, the Calgary Cannons, became the Albuquerque Isotopes in 2002, Edmonton was left as the lone Canadian team in the PCL.

Unlike their predecessors, the cost of travel won't be an issue for the Prospects, as all teams are located in the Prairies. Brown said the organization's primary focus will be on the development of college-aged players and the growth of baseball in the community.

"The Edmonton Prospects have to become a community based team," he said. "We have to care about places like Morinville, Leduc, Sherwood Park and all of those communities outside the city so that eventually the Prospects are a community based team, meaning all of the players are coming from the community itself.

"I think there's enough interest here, and enough local players who are attending college that play this game at a high level that eventually we'll be able to do that.

## Local bodybuilders compete for chance at making the world stage

**Taylor Evans**  
SPORTS STAFF • @TAYLOREVANSDIY

When most people first think of bodybuilding, they likely think of The Terminator himself, Arnold Schwarzenegger, who won the title of Mr. Universe at the young age of 20. But all bodybuilders have to start somewhere, and a local association offers athletes that very opportunity.

Since modern bodybuilding began in the late 19th century, its popularity has struggled to find its place on the world stage of sport. But with the culture of health and fitness on the rise, bodybuilding is reaching tremendous heights in popularity.

Asha Belisle, President of the Alberta Bodybuilding Association (ABBA), said she noticed a huge increase in interest over the years.

"Our membership and registration at shows has grown immensely," Belisle said. "The ABBA started out with maybe 50 athletes at a show, we are now at nearly 400 for our first regional show of 2014. It's incredible." As Alberta's most prominent bodybuilding organization, the ABBA is a leader in promoting involvement in the sport. Their season is currently in full swing, as the Donna and Brian Logue Provincial Bodybuilding Championships will take place Saturday, June 21 at the Winspear Centre.

Athletes begin their bodybuilding careers at the region level, which is known as Tier 1. After they finish

in the top five in their class, they progress to the provincial level, known in the sport as Tier 2. The athlete then must finish in the top five of their class to advance to the national level.

"At the national level, the athlete must win his or her class," Belisle said. "At the end of the show, all class winners then go into an 'overall' contest against one another.

**"I loved the camaraderie and the support that was offered by the ABBA, and I loved the lifestyle and the discipline"**

ASHA BELISLE  
PRESIDENT, ALBERTA BODYBUILDING ASSOCIATION

"The winner of that contest is then awarded with an International Federation of Body Building (IFBB) Pro card."

The Provincial Championships will feature Tier 2 classes in men's and women's bodybuilding, men's and women's fitness, bikini and figure, and classes in men's and women's master physiques, and couples body building and fitness.

Belisle herself debuted in 2004 in the fitness division of the ABBA and worked her way up to president after working as secretary of the



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organization for five years.

"I loved the camaraderie and the support that was offered by the ABBA, and I loved the lifestyle and the discipline," Belisle said. "I suffered two bad injuries in the same year and could no longer compete in that division, so I started volunteering at the shows."

**"The ABBA started out with maybe 50 athletes at a show, we are now at nearly 400 for our first regional show of 2014. It's incredible."**

ASHA BELISLE  
PRESIDENT, ALBERTA BODYBUILDING ASSOCIATION

Although the ABBA is an amateur association, it provides plenty of opportunities for their athletes to progress into higher tiers and eventually, given the right drive and dedication, receive their Pro Card from the IFBB — the same league Schwarzenegger dominated for seven years.

The ABBA has two events in Edmonton this June. The Margaret Logue Northern Alberta Bodybuilding Championships is happening June 7 at the Citadel Theater and the Donna and Brian Logue Provincial Bodybuilding Championship will be June 14 at the Winspear Centre.





ALSTIN CAMERON

## Getting to know U of A's Rowing Team

Despite having a short season, U of A Rowers find companionship on the boat

**Kwabena Anoh**

SPORTS WRITER • @KOBEXAMOH

"To most people, it's a very outlandish sport, a sport that they've never really heard of," laughs Deborah Johnson. With the grin on her face, you'd think she was talking about something extreme, like windsurfing. What she's really getting at might surprise you: rowing. Competitive rowing, specifically.

Johnson is the president of the University of Alberta Rowing Team (UART). Last year, she was the women's captain, making this year her second on the team.

**Gateway:** First things first: how does one get involved with rowing in Edmonton, especially when the season seems to be so short?

**Johnson:** We have a room in the ButteDome, an Erg [training] room. It's a fancy name for a rowing machine. During the winter, we have a tank. Over the summer, we're on the river. Telford Lake in Leduc has a lot of nice flat water that we can row on. During reading break, over the winter, we go to Shawnigan Lake School. It's a training camp, and we're there for a week. It's nice but rainy, but it is fun. Over the winter, it's a lot of training, a lot of crossfit.

**Gateway:** How about the season? When does it start?

**Johnson:** We just started the spring season with the Edmonton

Calgary boat race. Edmonton won a lot of those, so we're quite happy there. That flows into the summer season, which is more under the Edmonton Rowing Club and less of the university club.

**Gateway:** With a sport that's technical in nature like rowing, there's bound to be different styles. What types of techniques exist in the sport of rowing?

**Johnson:** There's sweep rowing and there's sculling rowing — two different techniques. Sculling has two oars, and sweep has one. There are singles, which is a one person boat, there are doubles which are two people sculling, and there are pairs — two people sweep one oar — and then it goes into four people boats. There's a quad which is sculling four people, or four which is sweep four people.

**Gateway:** How can athletes get involved? When and where do you compete?

**Johnson:** The university season starts in September, and we have two weeks to learn to row, where anyone's welcome to attend and come and try (it out). From there we go into a head race on the North Saskatchewan, which is just a five-kilometre race — a sprint race is a two-kilometre race. That head race is kind of the start of the university season. We do Head of the Gorge and Head

of the Elk in BC. From there, if you're good enough competitively, you're selected to do the Canadian University Championships. As soon as the rivers are frozen, we're stuck inside.

**Gateway:** Most competitive sports that people are familiar with, such as hockey, soccer and swimming are early entry in nature. You begin competing when you're very young, and progress to a more complex and technical level as you mature and grow. In rowing, this isn't exactly the case.

**Johnson:** High school is pretty much the perfect time, or around your first year of university. University is a typical starting time. The peak for a rower as an athlete, (Olympic wise), is much later than the peak of a soccer player or football player. The nice thing about the university team is that we're a club, and not a varsity sport, so you can come and just join and grow into it, and not have to have prior knowledge or feel that you need to be an expert to do it.

**Gateway:** What's the best part about being on the UART?

**Johnson:** It's hard work. But you want to be in the crew boats... rowing is a team sport, and it's preferable to be alongside other people. I really love it. I love the people. We have such a great time, and we become a family through it all.



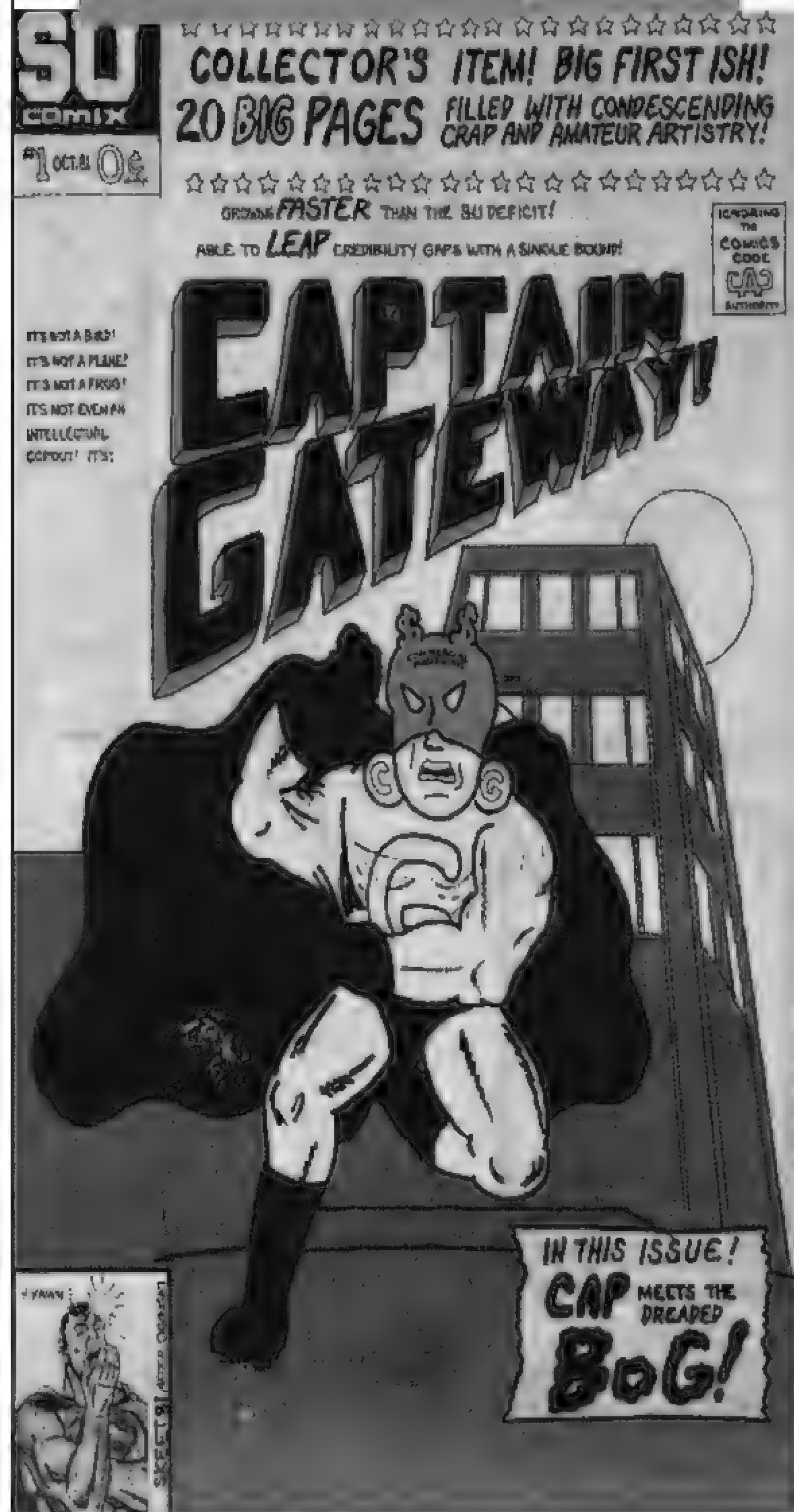
ALSTIN CAMERON

## The gateway news presents

# ANCIENT GATEWAY ARTICLE

### OF THE WEEK

OCTOBER 14, 1981

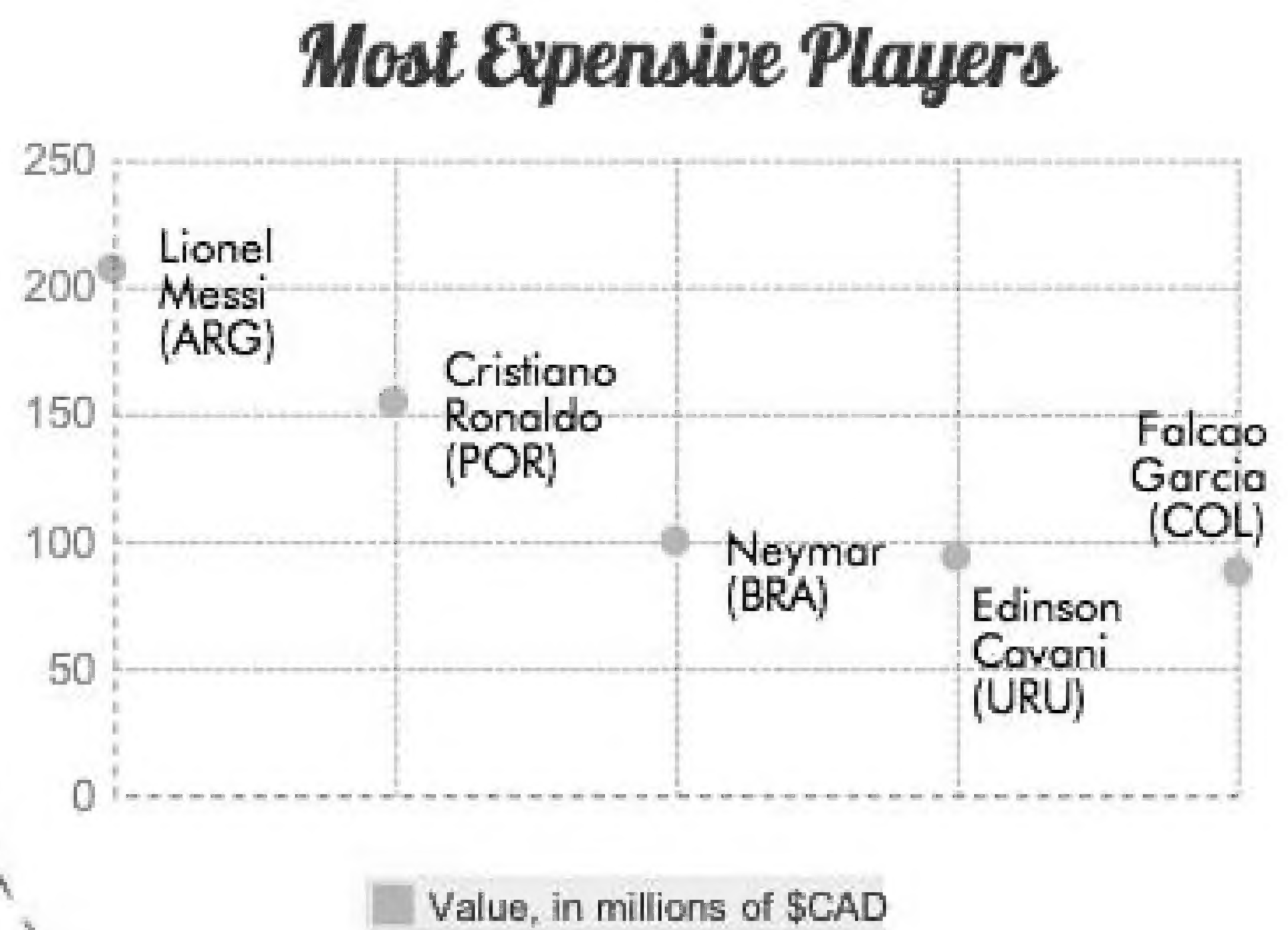
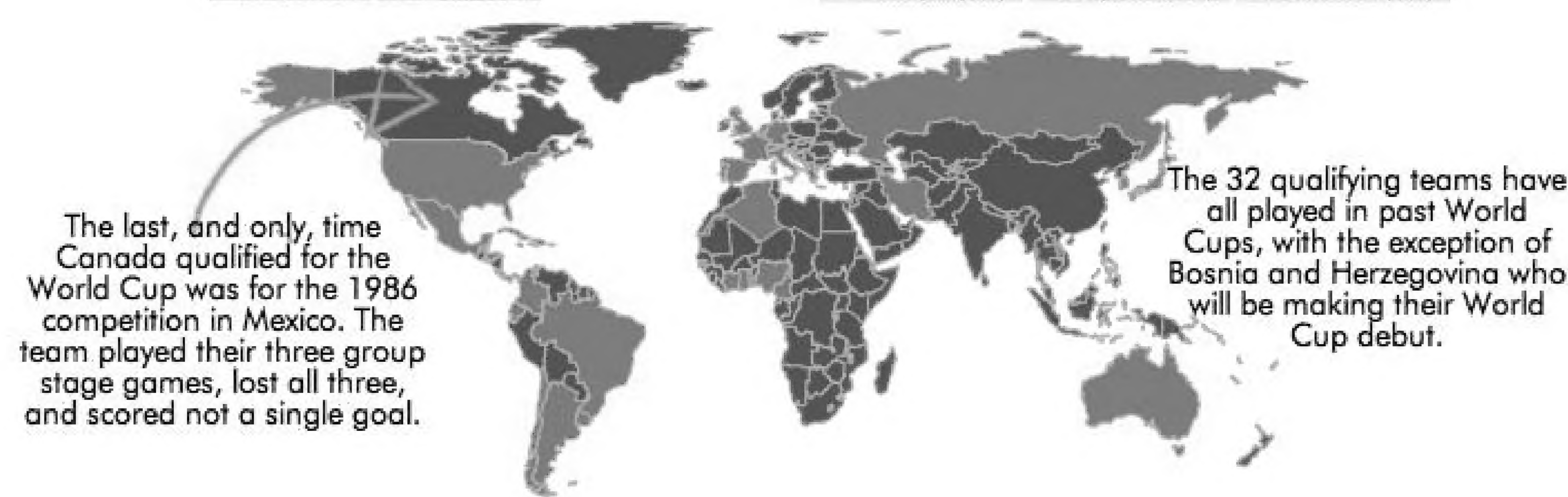
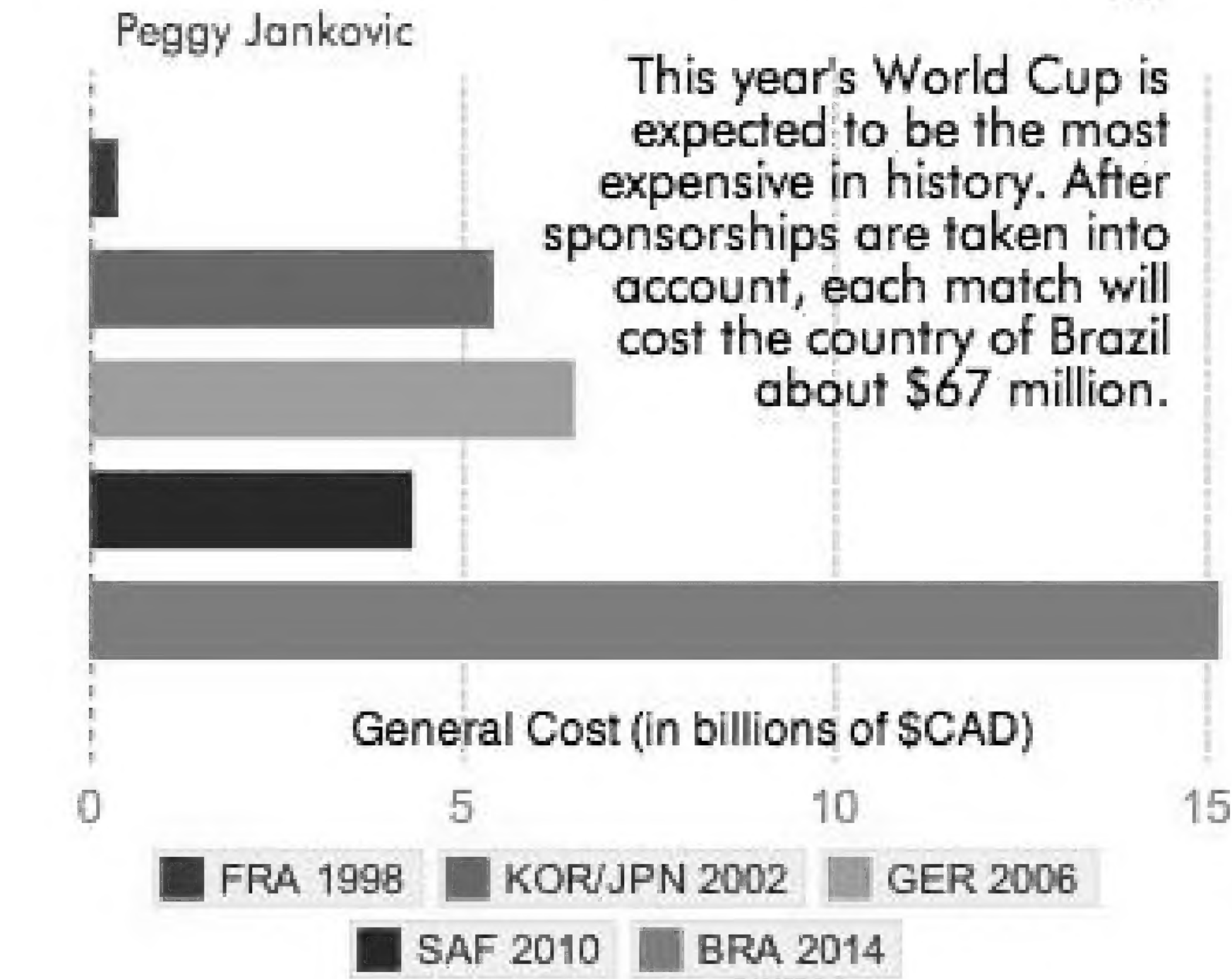


Write for Gateway News, and this could be you...minus the skin-tight spandex.

**gateway news**



# FIFA World Cup 2014: The Lowdown



German player Miroslav Klose has scored 14 World Cup goals and is expected to beat former Brazilian player Ronaldo's record of 15 goals.



**Frequent Fliers**

Just because the World Cup is hosted by a single country does not mean that travelling is minimal. Different matches will be played in different cities; on average, each team will have to travel a total of 7525 km for their group stage matches.



# All eyes on host nation Brazil at this year’s World Cup

Adam Pinkosi  
SPORTS STAFF • @APINKS101

## Three Groups to Watch:

**Group G:**  
This World Cup has three groups where three out of the four teams are serious contenders for advancing. The top of these three is Group G, containing the likes of Germany, Portugal, Ghana and USA. It’s nearly impossible to predict who will advance from Group G, but expect

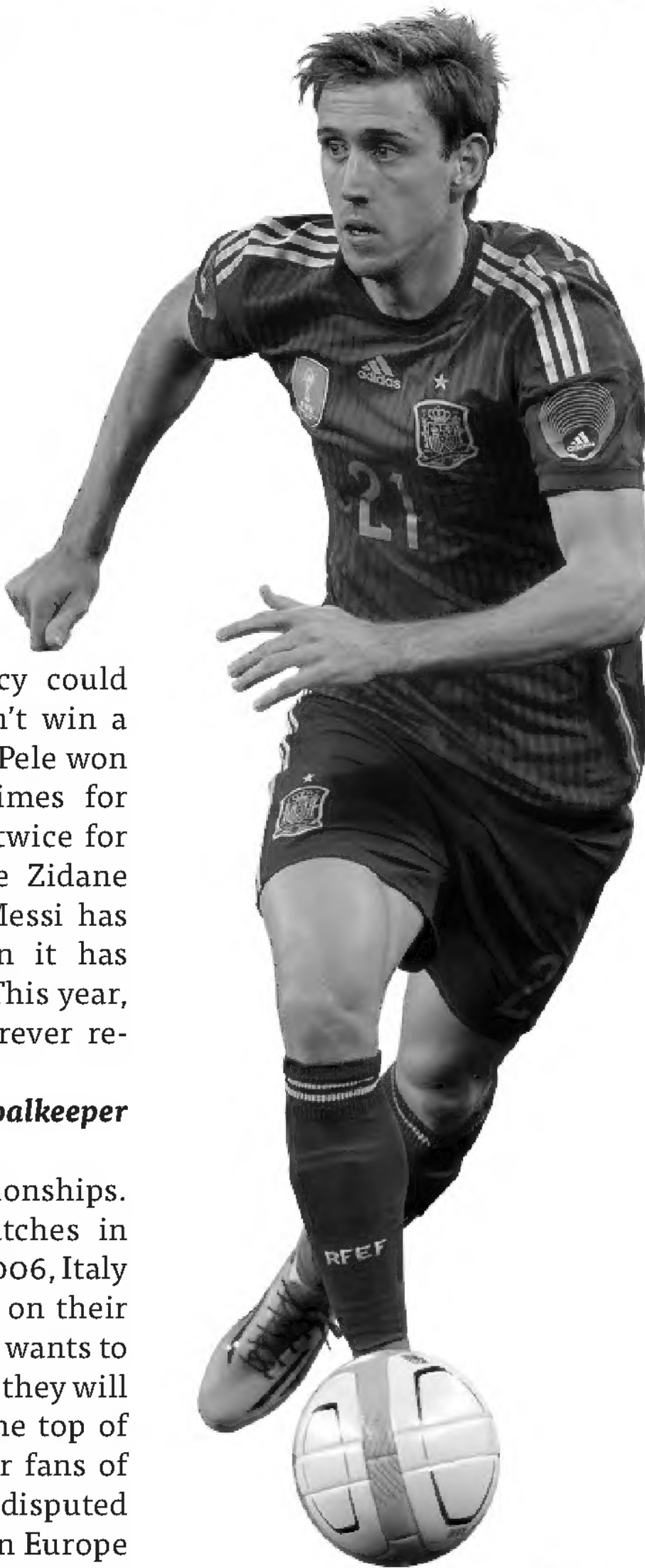
to see the German’s strong team performances lead them out on top. Cristiano Ronaldo’s strong play could prove to be the difference between Portugal advancing past the group stage or flying home early.

**Group B:**  
As for the other two groups of death, Group B contains World champions Spain, their opponents from the 2010 final, Netherlands, as well as Chile and Australia. The two obvious picks for advancing are Netherlands

and Spain, but Chile is known for upsetting some of the top teams on the world’s biggest stage so don’t count them out by any means.

**Group E:**  
The final group of death includes England, Italy, Uruguay and Costa Rica. Uruguay is known to be free scoring with a star-studded front line, but England and Italy boast two of the best defensive records in World Cup history. Costa Rica is the weakest link, but Keylor Navas is one of the world’s best

keepers. Every year, a team flies under the radar, and this year, it’ll be the Swiss. Switzerland is now ranked sixth in the world and should have an easy time advancing from Group E. But fans of England and the United States shouldn’t be quite as hopeful, as both teams have been pitted in incredibly difficult groups. But expect Brazil to win the championship at home in front of millions of their screaming fans — leaving Argentinian star Lionel Messi empty handed.



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## Five Players to Watch:

**Neymar Jr. — Forward (Brazil) Group A**

Neymar is without a doubt Brazil’s best hope at winning the World Cup this year. Watch out for his incredible pace and skill when he’s on the ball and his yearning for the goal. He’s scored some phenomenal goals for his country, and in Brazil’s pre-Cup friendlies, it doesn’t look like he’s slowing down.

**Diego Costa — Forward (Spain) Group B**

The controversial Brazilian born Spanish forward has been one of the most prolific goal-scorers in Europe this year and will be looking to continue his fine form through the World Cup. Costa’s style of play may not be pretty, but he always gets the job done. The only time Spain could potentially

face Brazil is in the final, and a Brazil versus Spain match would see Costa pitted as either a hero for his chosen country of Spain, or a villain to his birth country of Brazil.

**James Rodriguez — Striker (Colombia) Group C**

Colombia can thank super striker Radamel Falcao for leading them to a berth in the tournament. But an injury earlier in the year means the South American team will be without Falcao, their star striker. If they have any hope of making it out of their group, they will need Rodriguez to be on form. He might be only 22 years old, but the attacking midfielder is regarded as one of the most promising young players in the world.

**Lionel Messi — Striker (Argentina) Group F**

Messi has proven to be one of the world’s greatest to ever grace

the game. But his legacy could be tarnished if he doesn’t win a World Cup in his career. Pele won the World Cup three times for Brazil, Diego Maradona twice for Argentina, and Zinedine Zidane once with France. But Messi has always floundered when it has come to the World Cup. This year, he will be looking to forever rewrite the history books.

**Thibaut Courtois — Goalkeeper (Belgium) Group H**

Defense wins championships. Spain won all their matches in 2010 by one goal and in 2006, Italy conceded only two goals on their way to victory. If Belgium wants to have any shot at winning, they will need Courtois to be at the top of his game. Fortunately for fans of Belgium, he’s been the undisputed number one goalkeeper in Europe this year. A good performance from him is a given.

## Three Places to Watch:

The World Cup only happens every four years, so make the best of it. Here are some of the best places in Edmonton to watch one of the summer’s best sporting events.

### University of Alberta:

If you’re on campus this summer studying, take a break from the books by checking out the games for free on CBC.ca/fifaworldcup, or download the free app for iOS or Android. If you’re missing

the action on your phone’s tiny screen, set up camp in a lecture theatre and enjoy the world’s largest sporting event on the big screen. We recommend booking a room in CCIS or the Education building and streaming the game on one of the massive projectors.

### A Cultural Community Centre:

One of the best aspects of the World Cup is the passion surrounding cultural pasts and upbringing, and Edmonton is a multicultural hub. The German Canadian Cultural Association is

televising all of Germany’s World Cup games at their restaurant and facility at 8310 Roper Road, Edmonton. The Italian Centre Shop is hosting their 55th birthday alongside a free screening of the Italy vs. England game on June 14 in Giovanni Caboto Park. Grab a cappuccino at the shop and hit up the park for the festivities. Viva Italia!

### A Local Sports Bar:

Canada might not be in the World Cup, but the likelihood of the drinking industry in Edmonton

letting an opportunity like the World Cup slip through their fingers is low. If you live on campus and don’t want to walk to Whyte Avenue, the bars in and around campus will be televising the games. Catch a game at the U of A’s RATT (located on the seventh floor of the Student’s Union Building) or at Hudson’s on campus. Kelly’s Pub at 10156 104 Street has a big patio so you can enjoy the mid-June sun while taking in downtown’s vibrant atmosphere.

# Oil Kings deserve to be known as ‘kings of hockey’ in Edmonton

Cameron Lewis  
SPORTS EDITOR • @COOOM

Hundreds of excited Oil Kings fans crowded Churchill Square last Wednesday, as Mayor Don Iveson officially declared May 28 as Edmonton Oil Kings day. Churchill Square was packed with puck fans young and old who assembled to congratulate the Oil Kings for their 2014 Memorial Cup win, reinstating Edmonton as the City of Champions once again.

While the mass crowd at last week’s rally is a promising step in the right direction, the Oil Kings attendance has been disappointing. Edmonton’s attendance in 2013–14 dipped from 2012–2013 by nearly 500 fans per game. For a supposed “hockey town,” Edmonton’s support for the best hockey team in the city is incredibly low.

The Oil Kings have advanced to the WHL Championship three years in a row, winning in 2012 and 2014. Along with three straight WHL final berths, the Oil Kings have finished on top of the league’s Western Conference standings, eclipsing 50 wins each year. But Rexall Place has been more than half empty each game despite the Oil Kings’ recent dominance.

The Calgary Hitmen have had nowhere near the recent success



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of the Oil Kings, but have averaged between 8,200 and 9,000 fans per game the last three seasons. Meanwhile, the Oil Kings

have averaged between 6,400 and 7,600 fans per game over the same span.

During a time when the Oilers

have given hockey fans virtually nothing to cheer about, the Oil Kings have been a beacon of positivity. But fans seem to

be more willing to shell out hundreds of dollars to watch an apathetic Oilers squad lose than spend a fraction of that cash on a winning team.

It’s not like the WHL is beer league hockey either. The Oil Kings boast former third and 17th overall NHL draft selections in Griffin Reinhart and Curtis Lazar, alongside a handful of other future and past NHL draft picks. The skills seen in the WHL and the NHL are on a completely different level, but so is the skill discrepancy between NCAA basketball and NBA basketball. Yet you would be hard pressed to find the stadium of a college basketball team as dominant as the Oil Kings half empty. Ratings actually indicate that March Madness — the NCAA playoffs — dwarfs the popularity of the NBA Finals.

The intensity and passion of junior hockey is unmatched by any regular season NHL game and the Oil Kings are the best team around, and the fact that their reasonably priced games only attract a couple thousand fans is unfortunate for a so called “hockey town.”

Next season, when you’re debating where you should spend your money, do yourself a favour and spend it on the team that finally made Edmonton the City of Champions once again.



# diversions

**Design & Production Editor**  
Jessica Hong

**Phone**  
780.492.6663

**Email**  
production@gateway.ualberta.ca

**Twitter**  
@jesshong

**Volunteer**  
Send me an email! Comics meetings will be back in September :)

A MODERN ASIAN FAMILY by Stefano Jun



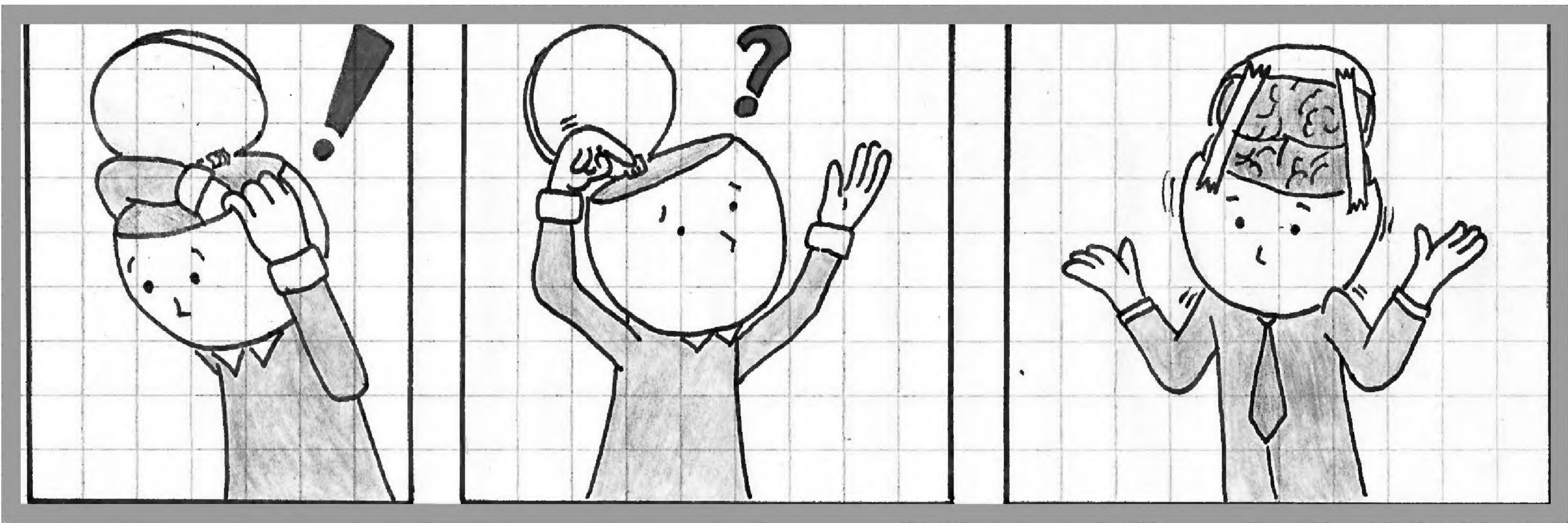
THE SLEEPY CAT by Nikhil Shah



BUTTCHIN by Anthony Goertz



LOST BRAIN by Michael Johnson






KIMYE by Jessica Hong

DEFINITIVE RANKING OF  
CRAZY THINGS WE CARE  
ABOUT BUT NOT REALLY.

1. KIMYE
2. KIMYE'S BABY
3. KIMYE'S WEDDING
4. HOW "KIMYE"  
SOUNDS LIKE  
"KIMCHI"

WRECK by Jessica Pigeau

Miley Cyrus is a  
terrible Role Model



Inciting young girls everywhere  
to sing awful music and play  
with heavy equipment without  
proper protective gear.

DIVERSIONS by Anonymous

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